

**Note:** The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This section explains the objectives, intended audience, and organization of this publication and describes the conventions that convey instructions and other information.

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## Revision History

Date	Notes
October, 2007	<ul style="list-style-type: none"> <li>• Added this Revision History table.</li> <li>• Added a table with Border Error Rates and a corresponding Note in the Performance Monitoring chapter. * Updated Table Footnote 4 under section STM-1 Card Performance Monitoring Parameters in Chapter 15- Performance Monitoring.</li> <li>• Added the sub-section 1.10.3 Pilot Fuse.</li> <li>• Added the sub-section 11.20.1 VCAT Circuit Routing over Server Trails.</li> </ul>
January, 2008	Updated cabling details for ONS-SE-ZE-EL SFP.
February, 2008	Updated the "Computer Requirements for CTC" table in Chapter 8, Cisco Transport Controller Operation.
March, 2008	<p>Removed the SFP ONS-SI-622-I1-MM= and added SFPs ONS-SI-155-SR-MM= and ONS-SI-622-SR-MM= in the following:</p> <ul style="list-style-type: none"> <li>• Optical Cards chapter</li> <li>• Hardware Specifications appendix</li> </ul>
April, 2008	

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	<ul style="list-style-type: none"> <li>• Corrected the Transmitter Output Power Min/Max for ONS-SI-155-SR-MM= and ONS-SI-622-SR-MM=.</li> <li>• Added a Note in the "User Password, Login, and Access Policies" section of the Security chapter.</li> <li>• Added a Caution in the "Single and Dual Rolls" section of the Circuits and Tunnels chapter.</li> <li>• Updated the "Software Release/Hardware Compatibility-XC-VXL-2.5G Configurations" table in Chapter 1, to show OC192SR1/STM64IO Short Reach/ OC192/STM64 Any Reach as Fully compatible for releases 6.0.0 onwards.</li> <li>• Added a note in the "TCC2P Functionality" section in Chapter 2, to mention that 6.312 MHz BITS OUT functionality is supported in the TCC2P card and that the software support will be added in a feature release.</li> <li>• Updated note on protection switching in "Link Capacity Adjustment" section of Chapter 11, Circuits and Tunnels.</li> </ul>
May, 2008	<ul style="list-style-type: none"> <li>• Added a new section "Speed-Duplex Combinations on SFPs" under section "SFP Modules" in the chapter Ethernet Cards.</li> <li>• Added power-level LED information for TCC2 and TCC2P cards in Chapter 2, Common Control Cards.</li> </ul>
July, 2008	<ul style="list-style-type: none"> <li>• Updated the section "15454_MRC-12 Port-Level Indicators" in the Optical Cards chapter, to show the correct number and status of the Rx indicator.</li> <li>• Updated the section "MRC-2.5G-12Port-Level Indicators" in the Optical Cards chapter, to show the correct number and status of the Rx indicator.* Added a note in section 10.1 "Timing Parameters" of Chapter 10, Timing.</li> </ul>
September, 2008	Updated the Software and Hardware Compatibility section.
August, 2008	<ul style="list-style-type: none"> <li>• Updated the RPR details for the ML-MR-10 card in section 5.8 ML-MR-10 Card of Chapter 5, Ethernet Cards.</li> <li>• Added sections 4.8 "OC48 IR/STM16 SH AS 1310 Card." and "A.6.7 OC48 IR/STM16 SH AS 1310 Card Specifications".</li> </ul>
September, 2008	<ul style="list-style-type: none"> <li>• Added a note in Card Default Settings and Node Default Settings section of Appendix C, Network Element Defaults.</li> <li>• Added a Warning for all optical cards in Chapter 4, Optical Cards.* Updated the maximum current rating and fusing in section "A.1.9 System Power" of Appendix A, Hardware Specifications.</li> <li>• Updated FC_MR-4 Statistics Parameters table in the chapter, Performance Monitoring.</li> <li>• Updated "Table 4-17 Line Rate Configurations Per 15454_MRC-12 Port, Based on Available Bandwidth" in Chapter 4, Optical Cards.</li> <li>• Added Table 1-3 and Table 1-4 in Chapter 1, Shelf and FMEC Hardware.</li> </ul>
October, 2008	Updated the section "4.15.2 Ports and Line Rates" and "Table 4-17 Line Rate Configurations Per 15454_MRC-12 Port, Based on Available Bandwidth" in Chapter 4, Optical Cards.
November, 2008	<ul style="list-style-type: none"> <li>• Updated the list of PM parameters for MRC-12 and MRC-4 cards in Chapter 15, Performance Monitoring.</li> <li>• Updated Server Trail section in Chapter 11, Circuits and Tunnels.* Updated the section "Compatibility by Card" in the chapter, "Optical Cards".</li> </ul>

## Document Objectives

This manual provides reference information for the Cisco ONS 15454 SDH.

## Audience

To use this publication, you should be familiar with Cisco or equivalent optical transmission hardware and cabling, telecommunications hardware and cabling, electronic circuitry and wiring practices, and preferably have experience as a telecommunications technician.

## Related Documentation

Use the *Cisco ONS 15454 SDH Reference Manual* with the following referenced publications:

- *Cisco ONS 15454 SDH Procedure Guide, Release 8.5* Provides procedures to install, turn up, provision, and maintain a Cisco ONS 15454 SDH node and network.
- *Cisco ONS 15454 SDH Troubleshooting Guide, Release 8.5* Provides general troubleshooting procedures, alarm description and troubleshooting procedures, error messages, and transient conditions.
- *Cisco ONS 15454 SDH and Cisco ONS 15600 SDH TL1 Command Guide, Release 8.5* Provides a full TL1 command and autonomous message set including parameters, AIDs, conditions and modifiers for the Cisco ONS 15454 SDH and Cisco ONS 15600 SDH.
- *Cisco ONS 15454 SDH and Cisco ONS 15600 SDH TL1 Reference Guide, Release 8.5* Provides general information, procedures, and errors for TL1 in the Cisco ONS 15454 SDH and Cisco ONS 15600 SDH.
- *Cisco ONS 15454 and Cisco ONS 15454 SDH Ethernet Card Software Feature and Configuration Guide, Release 8.5* Provides software features for all Ethernet cards and configuration information for Cisco IOS on Ethernet cards.
- *Release Notes for the Cisco ONS 15454 SDH Release 8.5* Provides caveats, closed issues, and new feature and functionality information.

For an update on End-of-Life and End-of-Sale notices, refer to [http://cisco.com/en/US/products/hw/optical/ps2006/prod\\_eol\\_notices\\_list.html](http://cisco.com/en/US/products/hw/optical/ps2006/prod_eol_notices_list.html).

## Document Conventions

This publication uses the following conventions:

Convention	Application
<b>boldface</b>	Commands and keywords in body text.
<i>italic</i>	Command input that is supplied by the user.
[ ]	Keywords or arguments that appear within square brackets are optional.
{ x   x   x }	A choice of keywords (represented by x) appears in braces separated by vertical bars. The user must select one.
Ctrl	The control key. For example, where Ctrl + D is written, hold down the Control key while pressing the D key.
screen font	Examples of information displayed on the screen.
<b>boldface screen font</b>	Examples of information that the user must enter.

< >	Command parameters that must be replaced by module-specific codes.
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**Note:** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the document.

**Caution!** Means *reader be careful*. In this situation, the user might do something that could result in equipment damage or loss of data.

<b>Warning!</b>	<p><b>IMPORTANT SAFETY INSTRUCTIONS</b></p> <p>This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071</p> <p><b>SAVE THESE INSTRUCTIONS</b></p>
<b>Waarschuwing</b>	<p><b>BELANGRIJKE VEILIGHEIDSINSTRUCTIES</b></p> <p>Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.</p> <p><b>BEWAAR DEZE INSTRUCTIES</b></p>
<b>Varoitus</b>	<p><b>TÄRKEITÄ TURVALLISUUSOHJEITA</b></p> <p>Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.</p> <p><b>SÄILYTÄ NÄMÄ OHJEET</b></p>
<b>Attention</b>	<p><b>IMPORTANTES INFORMATIONS DE SÉCURITÉ</b></p> <p>Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.</p> <p><b>CONSERVEZ CES INFORMATIONS</b></p>
<b>Warnung</b>	<p><b>WICHTIGE SICHERHEITSHINWEISE</b></p> <p>Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen</p>

	<p>Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.</p> <p>BEWAHREN SIE DIESE HINWEISE GUT AUF.</p>
<b>Avvertenza</b>	<p><b>IMPORTANTI ISTRUZIONI SULLA SICUREZZA</b></p> <p>Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.</p> <p>CONSERVARE QUESTE ISTRUZIONI</p>
<b>Advarsel</b>	<p><b>VIKTIGE SIKKERHETSINSTRUKSJONER</b></p> <p>Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.</p> <p>TA VARE PÅ DISSE INSTRUKSJONENE</p>
<b>Aviso</b>	<p><b>INSTRUÇÕES IMPORTANTES DE SEGURANÇA</b></p> <p>Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.</p> <p>GUARDE ESTAS INSTRUÇÕES</p>
<b>¡Advertencia!</b>	<p><b>INSTRUCCIONES IMPORTANTES DE SEGURIDAD</b></p> <p>Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.</p> <p>GUARDE ESTAS INSTRUCCIONES</p>
<b>Varning!</b>	<p><b>VIKTIGA SÄKERHETSANVISNINGAR</b></p> <p>Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.</p> <p>SPARA DESSA ANVISNINGAR</p>

<p><b>Figyelem</b></p>	<p><b>FONTOS BIZTONSÁGI ELOÍRÁSOK</b></p> <p>Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielott bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelt biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.</p> <p><b>ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!</b></p>
<p><b>Предупреждение</b></p>	<p><b>ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ</b></p> <p>Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.</p> <p><b>СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ</b></p>
<p><b>警告</b></p>	<p><b>重要的安全性说明</b></p> <p>此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。</p> <p>请保存这些安全性说明</p>
<p><b>警告</b></p>	<p><b>安全上の重要な注意事項</b></p> <p>「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。</p> <p>これらの注意事項を保管しておいてください。</p>
<p><b>주의</b></p>	<p><b>중요 안전 지침</b></p> <p>이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.</p> <p>이 지시 사항을 보관하십시오.</p>
<p><b>Aviso</b></p>	<p><b>INSTRUÇÕES IMPORTANTES DE SEGURANÇA</b></p> <p>Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.</p> <p><b>GUARDE ESTAS INSTRUÇÕES</b></p>
<p><b>Advarsel</b></p>	<p><b>VIGTIGE SIKKERHEDSANVISNINGER</b></p> <p>Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemesbeskadigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde</p>

	<p>oversættelsen i de oversatte advarsler, der fulgte med denne enhed.</p> <p>GEM DISSE ANVISNINGER</p>
تحذير	<p>إرشادات الأمان الهامة</p> <p>يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات</p>
Upozorenje	<p><b>VAŽNE SIGURNOSNE NAPOMENE</b></p> <p>Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.</p> <p><b>SAČUVAJTE OVE UPUTE</b></p>
Upozornění	<p><b>DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY</b></p> <p>Tento upozornující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.</p> <p><b>USCHOVEJTE TYTO POKYNY</b></p>
Προειδοποίηση	<p>ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ</p> <p>Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθειες πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.</p> <p><b>ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ</b></p>
אזהרה	<p><b>הוראות בטיחות חשובות</b></p> <p>סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.</p> <p><b>שמור הוראות אלה</b></p>
Opomena	<p><b>ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА</b></p> <p>Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во prevedените безбедносни предупредувања што се испорачани со уредот.</p> <p><b>ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА</b></p>

	<p><b>WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA</b></p> <p>Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.</p>
Ostrzeżenie	<p><b>NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ</b></p>
Upozornienie	<p><b>DŮLEŽITÉ BEZPEČNOSTNÉ POKYNY</b></p> <p>Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.</p> <p><b>USCHOVAJTE SI TENTO NÁVOD</b></p>

## Obtaining Optical Networking Information

This section contains information that is specific to optical networking products. For information that pertains to all of Cisco, refer to the [Obtaining Documentation and Submitting a Service Request](#) section.

### Where to Find Safety and Warning Information

For safety and warning information, refer to the *Cisco Optical Transport Products Safety and Compliance Information* document that accompanied the product. This publication describes the international agency compliance and safety information for the Cisco ONS 15454 system. It also includes translations of the safety warnings that appear in the ONS 15454 system documentation.

### Cisco Optical Networking Product Documentation CD-ROM

Optical networking-related documentation, including Cisco ONS 15xxx product documentation, is available in a CD-ROM package that ships with your product. The Optical Networking Product Documentation CD-ROM is updated periodically and may be more current than printed documentation.

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.