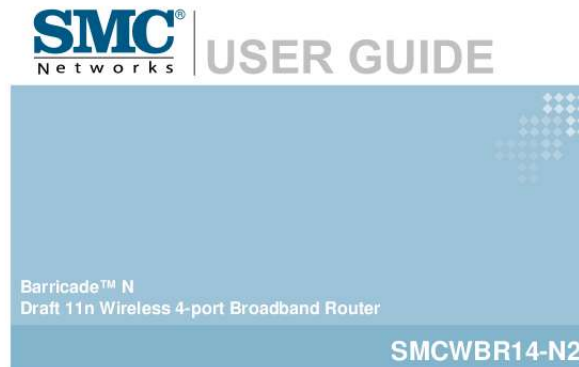




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC WBR14-N2. You'll find the answers to all your questions on the SMC WBR14-N2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SMC WBR14-N2**  
**User guide SMC WBR14-N2**  
**Operating instructions SMC WBR14-N2**  
**Instructions for use SMC WBR14-N2**  
**Instruction manual SMC WBR14-N2**



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**Manual abstract:**

The standard limited warranty can be upgraded to a Limited Lifetime\* warranty by registering new products within 30 days of purchase from SMC or its Authorized Reseller. Registration can be accomplished via the enclosed product registration card or online via the SMC website. Failure to register will not affect the standard limited warranty. The Limited Lifetime warranty covers a product during the Life of that Product, which is defined as the period of time during which the product is an "Active" SMC product. A product is considered to be "Active" while it is listed on the current SMC price list. As new technologies emerge, older technologies become obsolete and SMC will, at its discretion, replace an older product in its product line with one that incorporates these newer technologies. At that point, the obsolete product is discontinued and is no longer an "Active" SMC product. A list of discontinued products with their respective dates of discontinuance can be found at: [http://www.smc.com/index.cfm?action=customer\\_service\\_warranty](http://www.smc.com/index.cfm?action=customer_service_warranty).

All products that are replaced become the property of SMC. Replacement products may be either new or reconditioned. Any replaced or repaired product carries either a 30-day limited warranty or the remainder of the initial warranty, whichever is longer. SMC is not responsible for any custom software or firmware, configuration information, or memory data of Customer contained in, stored on, or integrated with any products returned to SMC pursuant to any warranty.

Products returned to SMC should have any customer-installed accessory or add-on components, such as expansion modules, removed prior to returning the product for replacement. SMC is not responsible for these items if they are returned with the product. Customers must contact SMC for a Return Material Authorization number prior to returning any product to SMC. Proof of purchase may be required. Any product returned to SMC without a valid Return Material Authorization (RMA) number clearly marked on the outside of the package will be returned to customer at customer's expense.

For warranty claims within North America, please call our toll-free customer support number at (800) 762-4968. Customers are responsible for all shipping charges from their facility to SMC. SMC is responsible for return shipping charges from SMC to customer. **WARRANTIES EXCLUSIVE: IF AN SMC PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, CUSTOMER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE PRODUCT IN QUESTION, AT SMC'S OPTION. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SMC NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF ITS PRODUCTS. SMC SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLIGENCE, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD. LIMITATION OF LIABILITY: IN NO EVENT, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), SHALL SMC BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE, LOSS OF BUSINESS, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF ITS PRODUCTS, EVEN IF SMC OR ITS AUTHORIZED RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES OR THE LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.**

**NOTHING IN THIS WARRANTY SHALL BE TAKEN TO AFFECT YOUR STATUTORY RIGHTS.** \* SMC will provide warranty service for one year following discontinuance from the active SMC price list. Under the limited lifetime warranty, internal and external power supplies, fans, and cables are covered by a standard one-year warranty from date of purchase. SMC Networks, Inc. 20 Mason Irvine, CA 92618 ii **Compliance Federal Communication Commission Interference Statement** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the distance between the equipment and receiver.

· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. **FCC Caution:** To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**IMPORTANT NOTE FCC Radiation Exposure Statement:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. iii **EC Conformance Declaration** SMC contact for these products in Europe is: SMC Networks Europe, Edificio Conata II, Calle Fructuos Gelabert 6-8, 2o, 4a, 08970 - Sant Joan Despi, Barcelona, Spain. Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards: EN 300 328 EN 301 489-1 EN 301 489-17 EN 60950-1 Council recommendation 1999/519/EC of 12 July 1999, limitations of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz) [Czech] Společnost SMC Networks tímto prohlašuje, že toto rádiové zařízení LAN je ve shod se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.



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Oficiální ES prohlášení o shod je uvedeno v příslušné části k produktu na webu <http://www.smc.com> SMC Networks erklærer herved, at følgende Radio LAN-enhed overholder de væsentlige krav og andre relevante bestemmelser i direktiv 1999/5/EF. Den officielle EU-overensstemmelseserklæring er tilgængelig under det relevante produktafsnit på følgende webadresse: <http://www.smc.com>. Hiermit erklärt SMC Networks, dass sich dieses Wireless LAN Gerät in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. Die offizielle EC-Declaration of Conformity finden Sie im Internet unter <http://www.smc.com> unter der entsprechenden Produktkategorie.

Käesolevaga kinnitab SMC Networks, et see Radio LAN seade vastab direktiivi 1995/5/EÜ põhinõuetele ja teistele asjakohastele sätetele. Ametliku EÜ vastavusdeklaratsiooni leiate vastavast tootejaotisest aadressil <http://www.smc.com>. Hereby, SMC Networks, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The official EC-Declaration of Conformity can be found under the [Danish] [German] [Estonian] [English] in corresponding product section on the web <http://www.smc.com>. [Spanish] Por medio de la presente SMC Networks declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. The official EC-Declaration of Conformity can be found under the corresponding product section on the web <http://www.smc.com>.

[www.smc.com](http://www.smc.com), SMC Networks, μ μ μ 1999/5/E. μ μ E, <http://www.smc.com>.

Par la présente SMC Networks déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. La déclaration de conformité officielle peut être trouvée sur notre site internet <http://www.smc.com> dans la rubrique Produits. Con la presente SMC Networks dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

La Dichiarazione di conformità CE ufficiale è disponibile nella sezione dedicata al rispettivo prodotto sul sito Web <http://www.smc.com>. Ar so SMC Networks deklar, ka Radio LAN device atbilst Direktivas 1999/5/EK būtiskajm prasbm un citiem ar to saisttiem noteikumiem. Oficil EK atbilstbas deklaracija ir atrodama attiecig produkta sada tmekl <http://www.smc.com>. Siuo „SMC Networks” deklaruoja, kad sis radijo LAN renginys atitinka esminių reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. Oficiali jo EB atitikties deklaracij galima rasti atitinkam gamini skyriuje siame tinklalapyje: <http://www.smc.com>.

com. Hierbij verklaart SMC Networks dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Het officiële EC- gelijkvormigheidattest kan men vinden op de internetsite <http://www.smc.com> onder de betrokken productcategorie.

B'dan, SMC Networks, tiddikjara li dan it-tagmir LAN tar-Radju huwa konformi mar-rekwiiti essenzzjali u dispoizzzjonijiet rilevanti ora ta' Direttiva 1999/5/KE. Id-Dikjarazzjoni ta' Konformità uffjiali tal-KE tinsab fit-taqsimta korrispondenti fis-sit ta' l-Internet <http://www.smc.com>. Az SMC Networks kijelenti, hogy a Radio LAN eszköz megfelel a vonatkozó alapvet követelményeknek és az 1999/5/EC irányelv egyéb elírásainak.

A [Greek] [French] [Italian] [Latvian] [Lithuanian] [Dutch] [Maltese] [Hungarian] v hivatalos EC megfelelségi nyilatkozat megtalálható a vonatkozó termék ismertetjénél, a következ címen: <http://www.smc.com> [Polish] Firma SMC Networks niniejszym owiadcza, e urządzenie Radio LAN jest zgodne z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. Oficjalna Deklaracja zgodności UE znajduje się w odpowiedniej sekcji produktu w witrynie <http://www.smc.com>.

com. A SMC Networks declara que este dispositivo de LAN de Rádio está em conformidade com os requisitos essenciais e com outras provisões relevantes da Directiva 1999/5/CE. A Declaração de Conformidade CE oficial encontra-se na secção correspondente do produto na Web, <http://www.smc.com>.

Druzba SMC Network izjavlja, da je naprava Radio LAN skladna z bistvenimi zahtevami oninkrijk, Zweden, Zwitterland. Benodigdheden voor gebruik buiten, zoals gebruiksvergunningen en toegelaten werkkanalen zijn van toepassing in sommige landen. Gelieve uw lokale instantie of SMC Networks te contacteren voor details op huidige beperkingen voor gebruik in buitenlucht. Este aparato es un transmisor inalámbrico de 2.4 GHz, previsto para el uso interior en domicilios y Pymes en todos los Estados de la CE y la EFTA notificados. De acuerdo con el artículo 6.4 de la Directiva R&TTE 1999/5/EC [French] [Dutch] [Spanish] vii los siguientes estados de la CE y de la EFTA han sido notificados: Austria, Bélgica, Dinamarca, Finlandia, Francia, Alemania, Italia, Luxemburgo, Países Bajos, Noruega, España, Suecia, Suiza, Reino Unido, Portugal, Grecia, Irlanda, Islandia. Los requisitos para su uso exterior, como requerimiento de licencia y canales de operación permitidos se aplican en algunos países. Por favor contacte la autoridad reguladora local o SMC Networks para más detalles en relación con las restricciones actuales para uso exterior. [German] Dieses Wireless LAN Gerät arbeitet im 2.

4 GHz Frequenzband und ist für den Einsatz im Innenbereich in den benachrichtigten EC/ EFTA Mitgliedstaaten geeignet. In Übereinstimmung mit Artikel 6.4 der R&TTE Direktive 1999/5/EC wurden folgende Mitgliedstaaten benachrichtigt: Österreich, Belgien, Dänemark, Finland, Frankreich, Deutschland, Italien, Luxemburg, Niederlande, Norwegen, Spanien, Schweden, Schweiz, Großbritannien, Portugal, Griechenland, Irland, Island. Für den Einsatz im Aussenbereich sind in einigen Ländern Lizenzen erforderlich oder die Anzahl der Kanäle ist eingeschränkt. Bitte kontaktieren Sie Ihre Regulierungsbehörde oder SMC Networks für die aktuellen Einschränkungen beim Einsatz im Aussenbereich. Toto zařízení je pijímac a vysílac pro bezdrátové síť LAN v pásmu 2,4 GHz, určený pro použití v interiéru domácností a kancelái ve všech členských zemích ES a ESVO, kterým byl oznámen záměr uvést zařízení na trh.



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V souladu s čl. 6 odst. 4 směrnice 1999/5/ES o rádiových zařízeních a telekomunikačních koncových zařízeních byly uvdomny tyto členské země ES nebo ESVO: Belgie, Dánsko, Finsko, Francie, Irsko, Island, Itálie, Lucembursko, Německo, Nizozemsko, Norsko, Portugalsko, Rakousko, ecko, Spojené království, Španlsko, Švédsko, Švýcarsko. Na použití ve venkovním prostředí se v některých zemích vztahují určité požadavky, nap. požadavky na licenci nebo provoz v povolených kanálech. O omezení venkovního použití se informujte u místních regulátorů nebo u společnosti SMC Networks. Enheden er en 2,4 GHz trådløs LAN-transceiver, beregnet til indendørs hjemme- og kontorbrug i alle notificerede EU- og EFTA-medlemslande. I henhold til afsnit 6.4 i R&TTE-direktivet 1999/5/EF er følgende EU-/EFTA-medlemslande notificeret: Østrig, Belgien, Danmark, Finland, Frankrig, Tyskland, Grækenland, Island, Irland, Italien, Luxembourg, Holland, Norge, Portugal, Spanien, Sverige, Schweiz og Storbritannien. I visse lande gælder der krav vedrørende udendørs betjening af enheden, f.eks. licenskrav og tilladte betjeningskanaler. Kontakt de lokale lovgivende myndigheder eller SMC Networks for at få oplysninger om aktuelle begrænsninger vedrørende udendørs betjening. See seade on 2. 4 GHz juhtmeta LAN vastuvõtu-saatejaam, mis on mõeldud kodu ja kontoris kasutamiseks kõikides teavitatud EÜ ja Euroopa Vabakaubanduse Assotsiatsiooni (EFTA) liikmesriikides. Vastavalt R&TTE direktiivi 1999/5/EÜ paragrahvile 6.4 on teavitatud järgmisi EÜ/EFTA [Czech] [Danish] [Estonian] viii liikmesriike: Austriat, Belgiat, Taanit, Soomet, Prantsusmaad, Saksamaad, Itaaliat, Luksemburgi, Hollandit, Norrat, Hispaaniat, Rootsit, Sveisit, Ühendkuningriiki, Portugali, Kreekat, Iirimaad, Islandi. Mõningates riikides kehtivad väljas kasutamiseks nõuded, näiteks litsentsinõuded ja lubatud töökanalid. Palun teavitage vastavat kohalikku ametkonda või ettevõtet SMC Networks'i, kui soovite täpsemaid andmeid väljas kasutamisel kehtivate piirangute kohta. [Greek] μ μ 2,4 GHz, μ, -μ. μ μ 6.4 μ μ μ (R&TTE), 1999/5/, -μ /: , , , , μ, μ, , , , μ, , , , μ, μ. μ SMC Networks μ μ μ.

Il presente device è un ricetrasmittitore LAN wireless da 2,4 GHz, previsto per l'uso in interni a casa e in ufficio in tutti gli Stati membri della CE e dell'EFTA notificati. Conformemente all'articolo 6.4 della Direttiva 1999/5/CE R&TTE, sono stati notificati i seguenti Stati membri della CE/dell'EFTA: Austria, Belgio, Danimarca, Finlandia, Francia, Germania, Grecia, Irlanda, Islanda, Italia, Lussemburgo, Norvegia, Paesi Bassi, Portogallo, Regno Unito, Spagna, Svezia, Svizzera. In alcuni Paesi si applicano i requisiti per il funzionamento in esterni, quali requisiti di licenza e canali consentiti. Contattare l'Autorità normativa locale del proprio Paese o SMC Networks per informazioni dettagliate sulle limitazioni correnti per l'utilizzo in esterni. S ierce ir 2,4 GHz bezvadu LAN raiduztvrs, kas paredzts izmantosanai iekstels mjs un birojos viss paziotajs EK un EBTA (European Free Trade Association - Eiropas brvs tirdzniecibas asociacija) dalbvalsts. Atbilstosi radioiekrtu un telekomunikciju gala iekrtu direktvas 1999/5/EK 6.4. pantam paziots EK/EBTA valstis ir : Austrija, Beija, Dnija, Somija, Francija, Vcija, Itlija, Luksemburga, Nderlande, Norvija, Spnija, Zviedrija, Sveice, Apvienot Karaliste, Portugle, Grietija, rija, Islande. Dazs valsts ir spk ierobeojumi lietosanai rvid, piemram, licences prasbas un darbbai atautie kanli.

Ldzu, sazinieties ar vietjo reguljoso instanci vai SMC Network, lai saemtu informciju par pasreizjiem ierobeojumiem lietosanai rvid. Sis renginys yra 2,4 GHz belaidis LAN sistuvas-untuvas, skirtas naudoti patalpose namie ar biure visose notifikuotose EB ir ELPA salyse narse. Pagal [Italian] [Latvian] [Lithuanian] ix RTTE Direktyvos 1999/5/EB 6.4 straipsn, notifikuotos yra sios EB/ELPA salys nars: Austrija, Belgija, Danija, Suomija, Pranczija, Vokietija, Italija, Liuksemburgas, Nyderlandai, Norvegija, Ispanija, Svedija, Sveicarija, Jungtin Karalyst, Portugalija, Graikija, Airija, Islandija. Kai kuriose salyse galioja tam tikri reikalavimai norint naudoti rengin lauke, pvz.

, licencijos ir suteikti rysio kanalai. Jei norite suzinoti, kokie apribojimai galioja norint naudoti rengin lauke, kreipkits nacionalin reguliavimo institucij arba „SMC Networks“. [Maltese] Dan it-tagmir huwa LAN transreciever mingajr fili ta' 2.4 GHz masub biex jintua fuq ewwa fi djar u uffini fil-pajjii notifikati tal-KE u l-Istati Membri ta' l-EFTA. B'mod konformi ma' Artikolu 6.

4 tad-Direttiva R&TTE 1999/5/KE l-Istati Membri tal-KE/EFTA li ejjin ew notifikati: L-Awstrija, Il-Belju, Id-Danimarka, Il-Finlandja, Franza, Il-ermanja, L-Italja, Il-Lussemburgu, L-Olanda, In-Norveja, Spanja, L-Iveja, L-Ivizzera, Ir-Renju Unit, Il-Portugal, Il-Greja, L-Irlanda, L-Islanda. Rekwiiti gal taddim fuq barra, bal tuijiet ta' lienzja u kanali permessi gal taddim japplikaw f'ertu pajjii. Jekk jogbok ikkuntattja lill-awtorita' regularorja lokali jew SMC Networks gal dettalji dwar restrizzjonijiet attwali dwar l-uu fuq barra. Ez az eszköz egy 2,4 GHz-es vezeték nélküli LAN adó-vev, amely beltéri és irodai használatra készült, és az összes értesített EC- és EFTA-tagországban használható. Az 1999/5/EC jel R&TTE elírás 6.4-es cikkének megfelelen a következ EC/ EFTA tagországok kaptak értesítést: Ausztria, Belgium, Dánia, Finnország, Franciaország, Németország, Olaszország, Luxemburg, Hollandia, Norvégia, Spanyolország, Svédország, Svájc, Egyesült Királyság, Portugália, Görögország, Írország és Izland. Egyes országokban külön elírások vonatkoznak a kültéri használatra, például a licencre és az engedélyezett csatornákra. A kültéri használatra vonatkozó aktuális elírásokkal kapcsolatos részletekért forduljon a helyi szabályozó hatósághoz vagy az SMC Networkshöz.



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Niniejsze urządzenie to urządzenie do odbierania i przesyłania sygnału (transceiver) w bezprzewodowej sieci LAN o częstotliwości 2,4 GHz, przeznaczone do użytku wewnątrz pomieszczeń, w domach i biurach we wszystkich krajach członkowskich UE i EFTA. Zgodnie z artykułem 6.

4 dyrektywy 1999/5/EC dotyczącej norm dla urządzeń radiowych i koczowych urządzeń teletransmisyjnych powiadomione zostały następujące kraje członkowskie: Austria, Belgia, Dania, Finlandia, Francja, Niemcy, Włochy, Luksemburg, Holandia, Hiszpania, Szwecja, Szwajcaria, Wielka Brytania, Portugalia, Grecja, Irlandia, Islandia. W niektórych krajach obowiązują wymagania dotyczące działania na zewnątrz budynków, na przykład wymagania licencyjne i dozwolone kanały pracy. Szczegółowe informacje na temat obowiązujących ograniczeń użytkowania zewnętrznego można uzyskać, kontaktując się z lokalnym urzędem regulacji lub firm SMC Networks. Este dispositivo é um transceptor de LAN sem fios de 2,4 GHz, destinado a [Hungarian] [Polish] [Portuguese] x uma utilização interior em casa e no escritório, em todos os Estados membros notificados da CE e da EFTA. De acordo com o artigo 6.4 da Directiva sobre R&TTE 1999/5/CE, foram notificados os seguintes Estados membros da CE/EFTA: Áustria, Bélgica, Dinamarca, Finlândia, França, Alemanha, Itália, Luxemburgo, Holanda, Noruega, Espanha, Suécia, Suíça, Reino Unido, Portugal, Grécia, Irlanda, Islândia. Os requisitos para uma utilização no exterior, tais como de licença e de canais de funcionamento permitidos aplicam-se a alguns países. Para obter informações sobre as restrições de utilização no exterior, contacte a autoridade local competente ou a SMC Networks. [Slovenian] Ta naprava je oddajno-sprejemna enota za brezžicno lokalno omrežje, namenjena uporabi na domu ali v pisarni v vseh prigradenih državah članicah ES in EFTA. Skladno s členom 6.

4 Dyrektywy 1999/5/ES o radijski opremi in telekomunikacijski terminalski opremi so bile obvescene naslednje države članice ES/EFTA: Avstrija, Belgija, Danska, Finska, Francija, Nemčija, Italija, Luksemburg, Nizozemska, Norveška, Španija, Švedska, Švica, Velika Britanija, Portugalska, Grčija, Irska, Islandija. V nekaterih državah veljajo zahteve za delovanje na prostem, kot so zahteve za dovoljenje in dovoljeni kanali za delovanje. Če potrebujete natančne informacije o trenutnih omejitvah uporabe na prostem, se obrnite na lokalni regulativni organ ali družbo SMC Networks. Toto zariadenie je prijímac a vysielac pre bezdrôtové siete v pásme 2,4 GHz a je určené na použitie v interiéroch domácností a kancelárií vo všetkých členských štátoch ES a EZVO, ktorým bol oznámený zámer uviesť zariadenie na trh. V súlade s čl.

6 odst. 4 smernice 1999/5/ES o rádiovom zariadení a koncových telekomunikačných zariadeniach boli upovedomené nasledujúce členské štáty ES/EZVO: Belgicko, Dánsko, Francúzsko, Fínsko, Grécko, Holandsko, Island, Írsko, Luxembursko, Nemecko, Nórsko, Portugalsko, Rakúsko, Španielsko, Švajciarsko, Švédsko, Taliansko, Veľká Británia. V niektorých štátoch sa na prevádzku v exteriéroch vzahujú určité požiadavky, napríklad požiadavky na licenciu alebo požiadavky na prevádzkové kanály. Podrobné informácie o aktuálnych obmedzeniach pri prevádzke v exteriéroch vám poskytnú miestne regulačné orgány alebo spoločnosť SMC Networks. Laite on 2,4 GHz:n langaton LAN-vastaanotin, joka on tarkoitettu koti- ja toimistokäyttöön kaikissa EY:n ja EFTAn jäsenmaissa, joihin siitä on ilmoitettu.

Radio- ja telepäätelaitedirektiivin 1999/5/EY mukaisesti seuraaville EY-/EFTA-maille on ilmoitettu: Itävalta, Belgia, Tanska, Suomi, Ranska, Saksa, Italia, Luxemburg, Alankomaat, Norja, Espanja, Ruotsi, Sveitsi, Iso-Britannia, Portugali, Kreikka, Irlanti ja Islanti. Joissakin maissa ulkokäyttöä koskevat erilliset vaatimukset, kuten erikseen anottava lupa ja sallittujen kanavien rajoittaminen. Ota yhteyttä paikalliseen käyttöä valvovaan viranomaiseen tai SMC Networksiin, jos haluat lisätietoja laitteen ulkokäytön rajoituksista. Apparaten är en 2,4 GHz trådlös LAN-mottagare för inomhusbruk i hem och på [Slovak] [Finnish] [Swedish] xi kontor i alla underrättade EG- och EFTA-medlemsstater. Enligt artikel 6.4 i R&TTE-direktivet 1999/5/EG är följande EG-/EFTA-stater underrättade: Österrike, Belgien, Danmark, Finland, Frankrike, Tyskland, Italien, Luxemburg, Nederländerna, Norge, Spanien, Sverige, Schweiz, Storbritannien, Portugal, Grekland, Irland och Island. I vissa länder tillkommer krav för utomhusbruk, t.ex. licenskrav och tillåtna användarkanaler. Kontakta lokala tillsynsmyndigheter eller SMC Networks för information om aktuella bestämmelser för utomhusbruk.

[Icelandic] Þessi búnaður er 2,4 GHz þráðlaust LAN sendivíðtæki til notkunar innanhúss á heimili og skrifstofu í öllum tilkynntum aðildarríkjum EB og EFTA. Í samræmi við grein 6.4 í R&TTE tilskipuninni 1999/5/EB hefur eftirfarandi aðildarríkjum EB/EFTA verið tilkynnt þar um: Austurríki, Belgía, Danmörk, Finnland, Frakkland, Þýskaland, Ítalía, Lúxemborg, Holland, Noregur, Spánn, Svíþjóð, Sviss, Bretland, Portúgal, Grikkland, Írland, Ísland. Kröfur fyrir notkun utanhúss, svo sem kröfur um leyfi og heimilaðar rásir eiga við í sumum löndum. Hafið samband við reglugerðaryfirvöld á hverjum stað eða SMC Networks til að fá upplýsingar um gildandi takmarkanir á notkun utanhúss. Denne enheten er en trådløs 2.4 GHz LAN-mottaker som er beregnet for innendørs privat- og kontorbruk i alle underrettede EF- og EFTA-medlemsstater. I overensstemmelse med artikkel 6.4 i R&TTE-direktivet 1999/5/EF, har følgende EF-/EFTA-medlemsstater blitt underrettet: Østerrike, Belgia, Danmark, Finland, Frankrike, Tyskland, Italia, Luxembourg, Nederland, Norge, Spania, Sverige, Sveits, Storbritannia, Portugal, Hellas, Irland og Island. Krav for utendørsbruk, som lisenskrav og tillatte brukskanaler, gjelder i noen land. Ta kontakt med din lokale regulerende myndighet eller SMC Networks for detaljert informasjon om gjeldende begrensninger for utendørs bruk.



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[Norwegian] Requirements for indoor vs. outdoor operation, license requirements and allowed channels of operation apply in some countries as described below: . In Italy the end-user must apply for a license from the national spectrum authority to operate this device outdoors. . In Belgium outdoor operation is only permitted using the 2.4 - 2.454 GHz band: Channels 1 - 7. Italian: In alcuni Paesi si applicano i requisiti per il funzionamento in interni-esterni, i requisiti di licenza e i canali consentiti, come descritto si seguito: - In Italia l'utente finale deve richiedere una licenza all'Autorità competente nazionale per il funzionamento in esterni del device. xii Dutch: Vereisten voor werking indoor versus outdoor, licentie vereisten en toegestane kanalen voor gebruik zijn van toepassing in bepaalde landen zoals hieronder beschreven. - In België is outdoor gebruik enkel toegestaan gebruik makend van de 2.46 - 2.4835 GHz band: Kanaal13. French: Conditions requises pour des installations intérieures ou extérieures, licences requises et canaux autorisés dans certains pays comme décrits ci-dessous: - En Belgique, l'installation extérieure est seulement autorisée sur la bande 2.46 - 2.4835 GHz:: Canal 13 - En France, l'installation extérieure est seulement autorisée sur la bande 2.

4 - 2.454 GHz : Canal 1-7 xiii Table of Contents Getting Started with the SMCWBR14-N2 Package Contents Minimum System Requirements Wireless LAN Networking Introduction Features Hardware Overview Rear Panel LEDs Installation Considerations Getting Started Using the Configuration Menu Basic Advanced Tools Status Glossary 3 4 4 5 9 9 10 10 11 12 12 13 14 24 57 72 83 2 Getting Started with the SMCWBR14-N2 Congratulations on purchasing the SMCWBR14-N2. This manual provides information for setting up and configuring the SMCWBR14-N2. This manual is intended for both home users and professionals. The following conventions are used in this manual: THE NOTE SYMBOL INDICATES ADDITIONAL INFORMATION ON THE TOPIC AT HAND. THE TIP SYMBOL INDICATES HELPFULL INFORMATION AND TIPS TO IMPROVE YOUR NETWORK EXPERIENCE. THE CAUTION SYMBOL ALERTS YOU TO SITUATIONS THAT MAY DEGRADE YOUR NETWORKING EXPERIENCE OR COMPROMISE LIKE NOTES AND TIPS, THE IMPORTANT SYMBOL INDICATES INFORMATION THAT CAN IMPROVE NETWORKING. THIS INFORMATION SHOULD NOT BE OVERLOOKED. 3 Package Contents BarricadeTM N Broadband Router (SMCWBR14-N2) Yellow RJ-45 Ethernet Cable Power Adapter (12V, 1A) Documentation CD Quick Installation Guide Warranty registration card Using a power supply with a different voltage than the one included with your product will cause damage and void the warranty for this product. Minimum System Requirements Broadband (Cable/xDSL) Internet service and Modem with Ethernet connection. 2.4GHz 802.11n draft wireless adapter or 2.4GHz 802.11b/g wireless adapter installed on each PC.

Alternatively an Ethernet adapter can be used. Internet Explorer 5.5 or above, Netscape 4.7 or above, Mozilla Firefox 1.0 or above 4 Wireless LAN Networking This section provides background information on wireless LAN networking technology. Consult the Glossary for definitions of the terminology used in this section. THE INFORMATION IN THIS SECTION IS FOR YOUR REFERENCE. CHANGING NETWORK SETTINGS AND PARTICULARLY SECURITY SETTINGS SHOULD ONLY BE DONE BY AN AUTHORIZED ADMINISTRATOR. Transmission Rate (Transfer Rate) The SMCWBR14-N2 provides various transmission (data) rate options for you to select. In most networking scenarios, the factory default Best (automatic) setting proves the most efficient. This setting allows your SMCWBR14-N2 to operate at the maximum transmission (data) rate. When the communication quality drops below a certain level, the SMCWBR14-N2 automatically switches to a lower transmission (data) rate. Transmission at lower data speeds is usually more reliable. However, when the communication quality improves again, the SMCWBR14-N2 gradually increases the transmission (data) rate again until it reaches the highest available transmission rate. Types of Wireless Networks Wireless LAN networking works in either of the two modes: ad-hoc and infrastructure.

In infrastructure mode, wireless devices communicate to a wired LAN via access points. Each access point and its wireless devices are known as a Basic Service Set (BSS). An Extended Service Set (ESS) is two or more BSSs in the same subnet. In ad hoc mode (also known as peer-to-peer mode), wireless devices communicate with each other directly and do not use an access point. This is an Independent BSS (IBSS). To connect to a wired network within a coverage area using access points, set the operation mode to Infrastructure (BSS). To set up an independent wireless workgroup without an access point, use Ad-hoc (IBSS) mode. AD-HOC (IBSS) NETWORK Ad-hoc mode does not require an access point or a wired network. Two or more wireless stations communicate directly to each other. An ad-hoc network may sometimes be referred to as an Independent Basic Service Set (IBSS).

To set up an ad-hoc network, configure all the stations in ad-hoc mode. Use the same SSID and 5 channel for each station. 6 When a number of wireless stations are connected using a single access point, you have a Basic Service Set (BSS). In the ESS diagram below, communication is done through the access points, which relay data packets to other wireless stations or devices connected to the wired network. Wireless stations can then access resources, such as a printer, on the wired network.

7 In an ESS environment, users are able to move from one access point to another without losing the connection. In the diagram below, when the user moves from BSS (1) to BSS (2) the WLAN client devices automatically switches to the channel used in BSS (2). Roaming in an ESS network diagram 8 Introduction The SMCWBR14-N2 is a high-performance, wireless router that supports high-speed wireless networking at home, at work or in public places. Unlike most routers, the SMCWBR14-N2 provides data transfers at up to 300Mbps when using 11n (Draft) connection. This router is also backwards compatible with 802.11g or 11b devices. This means that you do not need to change your entire network to maintain connectivity. You may sacrifice some of 11n's (Draft) speed when you mix 11n (Draft) and 11b/g devices, but you will not lose the ability to communicate when you incorporate the 11n (Draft) standard into your 11b/g network. You may choose to slowly change your network by gradually replacing the 11b/g devices with 11n (Draft) devices. Features Wi-Fi Compliant with IEEE 802.11n (draft) and IEEE 802.11b/g Standards 2.412 to 2.484GHz frequency band operation Compliant with IEEE 802.3 & 3u standards Support OFDM and CCK modulation High-Speed up to 300Mbps Data Rate using IEEE 802.



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11n (draft) connection Supports Cable/DSL Modems with Dynamic IP, Static IP, PPPoE, PPTP, L2TP or BigPond Connection Types Firewall features Network Address Translation (NAT), and Stateful Packet Inspection (SPI) protects against Dos attacks Traffic Control with Virtual Server (max 64 configurable servers) and DMZ UPnP (Universal Plug & Play) and ALGs Support for Internet applications such as Email, FTP, Gaming, Remote Desktop, Net Meeting, Telnet, and more Provides Additional Security of Enable/Disable SSID, Internet Access Control (Services, URL and MAC Filtering) Supports Multiple and Concurrent IPSec, L2TP and PPTP VPN Pass-Through Sessions Flash Memory for Firmware Upgrade, Save/Restore Settings Easy Management via Web Browser (HTTP) and Remote Management Supports 64/128-bit WEP, WPA/WPA2, and WPA-PSK/WPA2-PSK Compliant with Windows 98/NT/2000/XP/2003 Server, Linux and Mac OS Support 4 x 10/100Mbps Auto-MDIX LAN Port and 1 x 10/100Mbps WAN Port (Internet) Built-in 3 External Antennas to support high speed performance and great coverage 9 Hardware Overview Back/Side Panel POWER The Power input connector is a single jack socket to supply power to the SMCWBR14-N2. Please use the Power Adapter provided in the SMCWBR14-N2 package. RESET Pressing the reset button restores the router to its original factory default settings. WLAN ON/OFF The WLAN ON/OFF slide switch can be used to turn the wireless AP function ON/OFF WAN (Auto MDI/MDIX) The WAN port is used to connect to an Ethernet Cable or xDSL modem LAN1-4 (Auto MDI/MDIX) The LAN ports are used for connecting networking devices such as PC's, Printers & Switches. The LAN ports automatically sense the cable type when connecting to Ethernet enabled computers. LAN1-4 (Auto MDI/MDIX) The LAN ports are used for connecting networking devices such as PC's, Printers & Switches. The LAN ports automatically sense the cable type when connecting to Ethernet enabled computers. WPS When prompted press the WPS button to configure wireless security. 10 Front Panel LED's POWER A solid green LED indicates the SMCWBR14-N2 is receiving power normal operation. If the LED is off there is no power to device or failure.

LAN1-4 A solid green LED indicates the corresponding LAN port connection is established. The LED blinks when data is transmitted. If the LED is off there is no link for corresponding LAN port. WAN A solid green LED indicates the WAN port connection is established. The LED blinks when data is transmitted.

If the LED is off there is no link for the WAN port. WLAN A solid green LED indicates the wireless AP is ready. The LED blinks when wireless data is transmitted. WPS After pressing the WPS button the WPS LED will blink continually. When a client joins the network successfully the LED will stop blinking and become solid until the next WPS action or the device is rebooted.

If no client joins the LED will stop blinking and switch off after 4 minutes. 11 Installation Considerations The SMCWBR14-N2 lets you access your network, using a wireless connection, from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines: 1 Keep the number of walls and ceilings between the SMCWBR14-N2 and other network devices to a minimum - each wall or ceiling can reduce your wireless product's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick.

At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception. Building Materials can impede the wireless signal - a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate extreme RF noise. 2 3 4 Getting Started For a typical home setup, you will need a Broadband (Cable/xDSL) Internet service and Modem with Ethernet connection. Consult with your Cable or xDSL provider for proper installation of the modem. Please do the following: 1. Connect your Broadband modem (Cable/xDSL) to the blue WAN port on the Barricade™ 2. Connect the network card of your PC to the yellow LAN port on the Barricade™ using the yellow RJ-45 cable provided. Now connect the power adapter. 3. Reboot PC. Start web browser and enter address <http://192.168.2>.

1. When prompted enter password smcadmin then click [Log In]. Note: The User Name must be set to Admin. 4. Click [BASIC], then [Setup Wizard], then [Launch Internet Connection Setup Wizard].

Follow the on screen instructions to complete the set-up and reboot the Barricade™. You are now ready to enjoy your Internet connection. 12 Using the Configuration Menu Whenever you want to configure your SMCWBR14-N2, you can access the Configuration Menu through your PC by opening the Web-browser and typing in the IP Address of the SMCWBR14-N2. The SMCWBR14-N2 default IP address is: <http://192.168.2.1> Open the Web browser. Type in the IP Address of the Router (<http://192.168.2>).

1). If you have changed the default IP Address assigned to the SMCWBR14-N2, make sure you enter the correct IP Address. Select Admin in the User Name field. Enter Password: smcadmin (default). Click Log In. If you have changed the default password assigned to the SMCWBR14-N2, make sure you enter the correct password. 13 Basic The Basic tab provides the following configuration options: INTERNET, WIRELESS and NETWORK SETTINGS. Basic\_Internet Setup Wizard If you are new to networking and have never configured a router before, click on Setup Wizard and the router will guide you through a few simple steps to get your network up and running. Manual Configure If you consider yourself an advanced user and have configured a router before, click Manual 14 Configure to input all the settings manually. Basic\_Wireless The wireless section is used to configure the wireless settings for your router. Note that changes made in this section may also need to be duplicated on wireless clients that you want to connect to your wireless network. To protect your privacy, use the wireless security mode to configure the wireless security features. This device supports three wireless security modes including: WEP, WPA-Personal, and WPA-Enterprise.



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WEP is the original wireless encryption standard. WPA-Enterprise provides a higher level of security.

WPA-Personal does not require an authentication server. The WPA-Enterprise option requires a RADIUS authentication server. 15 Enable Wireless This option allows you to enable/disable the wireless AP function. The wireless can also be turned ON/OFF by the slide switch on the back panel. When the wireless is enabled, the following parameters are in effect.

**Wireless Network Name** When you are browsing for available wireless networks, this is the name that will appear in the list (unless Visibility Status is set to Invisible, see below). This name is also referred to as the SSID. For security purposes, it is highly recommended to change from the pre-configured network name. **Enable Auto Channel Scan** If you select this option, the router automatically finds the channel with least interference and uses that channel for wireless networking. If you disable this option, the router uses the channel that you specify with the following Wireless Channel option. **Wireless Channel A** wireless network uses specific channels in the wireless spectrum to handle communication between clients. Some channels in your area may have interference from other electronic devices. Choose the clearest channel to help optimize the performance and coverage of your wireless network. **802.11 Mode** If all of the wireless devices you want to connect with this router can connect in the same transmission mode, you can improve performance slightly by choosing the appropriate "Only" mode.

If you have some devices that use a different transmission mode, choose the appropriate "Mixed" mode. **Channel Width** The "Auto 20/40 MHz" option is usually best. The other options are available for special circumstances. Note that when 20/40MHz option is selected, an extended channel will be used to extend the data rate. **Transmission Rate** By default the fastest possible transmission rate will be selected. You have the option of selecting the speed if necessary. **Visibility Status** The Invisible option allows you to hide your wireless network. When this option is set to Visible, your wireless network name is broadcast to anyone within the range of your signal. If you're not using encryption then they could connect to your network. When Invisible mode is enabled, you must enter the Wireless Network Name (SSID) on the client manually to connect to the network.

**Security Mode (NONE, WEP, WPA-Personal, WPA-Enterprise)** Unless one of these encryption modes is selected, wireless transmissions to and from your wireless network can be easily intercepted and interpreted by unauthorized users. 16 WEP A method of encrypting data for wireless communication intended to provide the same level of privacy as a wired network. WEP is not as secure as WPA encryption. To gain access to a WEP network, you must know the key. The key is a string of characters that you create.

When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 128-bit encryption requires a longer key than 64-bit encryption. Keys are defined by entering in a string in HEX (hexadecimal - using characters 0-9, A-F) or ASCII (American Standard Code for Information Interchange - alphanumeric characters) format. ASCII format is provided so you can enter a string that is easier to remember. The ASCII string is converted to HEX for use over the network. Four keys can be defined so that you can change keys easily. A default key is selected for use on the network. Example: 64-bit hexadecimal keys are exactly 10 characters in length. (12345678FA is a valid string of 10 characters for 64-bit encryption.) 128-bit hexadecimal keys are exactly 26 characters in length. (456FBCDF123400122225271730 is a valid string of 26 characters for 128-bit encryption.) 64-bit ASCII keys are up to 5 characters in length (DMODE is a valid string of 5 characters for 64-bit encryption.) 128-bit ASCII keys are up to 13 characters in length (2002HALOSWIN1 is a valid string of 13 characters for 128-bit encryption.) Note that, if you enter fewer characters in the WEP key than required, the remainder of the key is automatically padded with zeros.

**WPA-Personal and WPA-Enterprise** Both of these options select some variant of Wi-Fi Protected Access (WPA) -- security standards published by the Wi-Fi Alliance. The WPA Mode further refines the variant that the router should employ. WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the "WPA or WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. The strongest cipher that the client supports will be used. With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security. If the clients support the AES cipher, it will be used across the wireless network to ensure best security. **Group Key Update Interval:** The amount of time before the group key used for broadcast and multicast data is changed.

**WPA-Personal** This option uses Wi-Fi Protected Access with a Pre-Shared Key (PSK). **Pre-Shared Key:** The key is entered as a pass-phrase of up to 63 alphanumeric characters in ASCII (American Standard Code for Information Interchange) format at both ends of the wireless connection. It cannot be shorter than eight characters, although for proper security it needs to be of ample length and should not be a commonly known phrase. This phrase is used to generate session keys that are unique for each wireless client. Example: 17 **Wireless Networking technology enables ubiquitous communication WPA-Enterprise** This option works with a RADIUS Server to authenticate wireless clients.

Wireless clients should have established the necessary credentials before attempting to authenticate to the Server through this Gateway. Furthermore, it may be necessary to configure the RADIUS Server to allow this Gateway to authenticate users. **Authentication Timeout:** Amount of time before a client will be required to re-authenticate. **RADIUS Server IP Address:** The IP address of the authentication server. **RADIUS Server Port:** The port number used to connect to the authentication server.

**RADIUS Server Shared Secret:** A pass-phrase that must match with the authentication server. **MAC Address Authentication:** If this is selected, the user must connect from the same computer whenever logging into the wireless network. **Advanced: Optional Backup RADIUS Server** This option enables configuration of an optional second RADIUS server. A second RADIUS server can be used as backup for the primary RADIUS server. The second RADIUS server is consulted only when the primary server is not available or not responding. The fields **Second RADIUS Server IP Address, RADIUS Server Port, Second RADIUS server Shared Secret, Second MAC Address Authentication** provide the corresponding parameters for the second RADIUS Server.



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18 *Basic\_Network Settings* Use this section to configure the internal network settings of your router. The IP Address that is configured here is the IP Address that you use to access the Web-based management interface. If you change the IP Address here, you may need to adjust your PC's network settings to access the network again. 19 *Router Settings* These are the settings of the LAN (Local Area Network) interface for the router.

The router's local network (LAN) settings are configured based on the IP Address and Subnet Mask assigned in this section. The IP address is also used to access this Web-based management interface. It is recommended that you use the default settings if you do not have an existing network. IP Address The IP address of your router on the local area network. Your local area network settings are based on the address assigned here. For example, 192.168.2.1. Subnet Mask The subnet mask of your router on the local area network.

Local Domain Name This entry is optional. Enter a domain name for the local network. The router's DHCP server will give this domain name to the computers on the wireless LAN. So, for example, if you enter mynetwork.net here, and you have a wireless laptop with a name of chris, that laptop will be known as chris.

mynetwork.net. Note, however, if the router's settings specify "DHCP (Dynamic)" Address, and the router's DHCP server assigns a domain name to the AP, that domain name will override any name you enter here. DNS Relay When DNS Relay is enabled, the router plays the role of a DNS server. DNS requests sent to the router are forwarded to the ISP's DNS server.

This provides a constant DNS address that LAN computers can use, even when the router obtains a different DNS server address from the ISP upon re-establishing the WAN connection. You should disable DNS relay if you implement a LAN-side DNS server as a virtual server. RIP (Routing Information Protocol) Used to broadcast routing information among routers. Enable RIP Enable RIP if required by the ISP, if the LAN has multiple routers, or if the LAN has auto-IP devices. RIP Operating mode This router supports both version 2 and version 1 of the RIP specification. V1. Use if none of the routers supports Version 2. V2 Broadcast. Use if some routers are capable of Version 2, but some are only capable of Version 1. V2 Multicast.

Use if this is the only router on the LAN or if all the routers support Version 2. Router Metric The additional cost of routing a packet through this router. The normal value for a simple network is 1. This metric is added to routes learned from other routers; it is not added to static or system routes. 20 Act as default router Make this router the preferred destination for packets that are not otherwise destined. Allow RIP updates from WAN For security, disable this option unless required by the ISP. RIP Password RIP Version 2 supports the use of a password to limit access to routers through the RIP protocol. If the ISP or other LAN router requires a RIP password, enter the password here. DHCP Server Settings DHCP stands for Dynamic Host Configuration Protocol. The DHCP section is where you configure the built-in DHCP Server to assign IP addresses to the computers and other devices on your local area network (LAN).

Enable DHCP Server Once your router is properly configured and this option is enabled, the DHCP Server will manage the IP addresses and other network configuration information for computers and other devices connected to your Local Area Network. There is no need for you to do this yourself. The computers (and other devices) connected to your LAN also need to have their TCP/IP configuration set to "DHCP" or "Obtain an IP address automatically". When you set Enable DHCP Server, the following options are displayed. DHCP IP Address Range These two IP values (from and to) define a range of IP addresses that the DHCP Server uses when assigning addresses to computers and devices on your Local Area Network.

Any addresses that are outside of this range are not managed by the DHCP Server; these could, therefore, be used for manually configured devices or devices that cannot use DHCP to obtain network address details automatically. It is possible for a computer or device that is manually configured to have an address that does reside within this range. In this case the address should be reserved (see Static DHCP Client below), so that the DHCP Server knows that this specific address can only be used by a specific computer or device. Your router, by default, has a static IP address of 192.168.

2.1. This means that addresses 192.168.2.2 to 192.168.2.254 can be made available for allocation by the DHCP Server. Example: Your router uses 192.

168.2.1 for the IP address. You've assigned a computer that you want to designate as a Web server with a static IP address of 192.168.2.3. You've assigned another computer that you want to designate as an FTP server with a static IP address of 192.168.2.

4. Therefore the starting IP address for your DHCP IP address range needs to be 192.168.2.5 or greater.

Example: Suppose you configure the DHCP Server to manage addresses From: 192.168.2.100 To: 192.168.

2.199. This means that 192.168.2.3 to 192.168.2.99 and 192.168.

2.200 to 192.168.2.254 are NOT managed by the DHCP Server. Computers or devices that use addresses from these ranges are to be manually configured.

Suppose you have a web 21 server computer that has a manually configured address of 192.168.2.100.

Because this falls within the "managed range" be sure to create a reservation for this address and match it to the relevant computer (see Static DHCP Client below). DHCP Lease Time The amount of time that a computer may have an IP address before it is required to renew the lease. The lease functions just as a lease on an apartment would. The initial lease designates the amount of time before the lease expires. If the tenant wishes to retain the address when the lease is expired then a new lease is established.

If the lease expires and the address is no longer needed than another tenant may use the address. Always Broadcast If all the computers on the LAN successfully obtain their IP addresses from the router's DHCP server as expected, this option can remain disabled. However, if one of the computers on the LAN fails to obtain an IP address from the router's DHCP server, it may have an old DHCP client that incorrectly turns off the broadcast flag of DHCP packets. Enabling this option will cause the router to always broadcast its responses to all clients, thereby working around the problem, at the cost of increased broadcast traffic on the LAN. Add/Edit DHCP Reservation This option lets you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address.

This is almost the same as when a device has a static IP address except that the device must still request an IP address from the router. The router will provide the device the same IP address every time.



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DHCP Reservations are helpful for server computers on the local network that are hosting applications such as Web and FTP. Servers on your network should either use a static IP address or use this option. Computer Name You can assign a name for each computer that is given a reserved IP address. This may help you keep track of which computers are assigned this way. Example: Game Server. IP Address: The LAN address that you want to reserve. MAC Address To input the MAC address of your system, enter it in manually or connect to the router's Web-Management interface from the system and click the Copy Your PC's MAC Address button. A MAC address is usually located on a sticker on the bottom of a network device.

The MAC address is comprised of twelve digits. Each pair of hexadecimal digits are usually separated by dashes or colons such as 00-0D-88-11-22-33 or 00:0D:88:11:22:33. If your network device is a computer and the network card is already located inside the computer, you can connect to the router from the computer and click the Copy Your PC's MAC Address button to enter the MAC address. As an alternative, you can locate a MAC address in a specific operating system by following the steps below: 22 Windows 98 Windows Me Windows 2000 Windows XP Mac OS X Go to the Start menu, select Run, type in winipcfg, and hit Enter. A popup window will be displayed. Select the appropriate adapter from the pull-down menu and you will see the Adapter Address. This is the MAC address of the device. Go to your Start menu, select Programs, select Accessories, and select Command Prompt. At the command prompt type ipconfig /all and hit Enter. The physical address displayed for the adapter connecting to the router is the MAC address.

Go to the Apple Menu, select System Preferences, select Network, and select the Ethernet Adapter connecting to the router. Select the Ethernet button and the Ethernet ID will be listed. This is the same as the MAC address. DHCP Reservations List This shows clients that you have specified to have reserved DHCP addresses. An entry can be changed by clicking the Edit icon, or deleted by clicking the Delete icon.

When you click the Edit icon, the item is highlighted, and the "Edit DHCP Reservation" section is activated for editing. Number of Dynamic DHCP Clients In this section you can see what LAN devices are currently leasing IP addresses. Revoke The Revoke option is available for the situation in which the lease table becomes full or nearly full, you need to recover space in the table for new entries, and you know that some of the currently allocated leases are no longer needed. Clicking Revoke cancels the lease for a specific LAN device and frees an entry in the lease table. Do this only if the device no longer needs the leased IP address, because, for example, it has been removed from the network.

Reserve The Reserve option converts this dynamic IP allocation into a DHCP Reservation and adds the corresponding entry to the DHCP Reservations List. 23 Advanced The Advanced tab provides the following configuration options: Virtual Server, Special Applications, Gaming, StreamEngine, Routing, Access Control, WEB Filter, MAC Address Filter, Firewall, Inbound Filter, Advanced Wireless and Advanced Network. Advanced\_Virtual Server The Virtual Server option gives Internet users access to services on your LAN. This feature is useful for hosting online services such as FTP, Web, or game servers. For each Virtual Server, you define a public port on your router for redirection to an internal LAN IP Address and LAN port. 24 Example: You are hosting a Web Server on a PC that has LAN IP Address of 192.168.2.50 and your ISP is blocking Port 80. 1.

Name the Virtual Server (for example: Web Server) 2. Enter the IP Address of the machine on your LAN (for example: 192.168.2.50 3. Enter the Private Port as [80] 4. Enter the Public Port as [8888] 5. Select the Protocol (for example TCP). 6. Ensure the schedule is set to Always 7.

Click Save to add the settings to the Virtual Servers List 8. Repeat these steps for each Virtual Server Rule you wish to add. After the list is complete, click Save Settings at the top of the page. With this Virtual Server entry, all Internet traffic on Port 8888 will be redirected to your internal web server on port 80 at IP Address 192.168.

2.50. Virtual Server Parameters Name Assign a meaningful name to the virtual server, for example Web Server. Several well-known types of virtual server are available from the "Application Name" drop-down list. Selecting one of these entries fills some of the remaining parameters with standard values for that type of server.

IP Address The IP address of the system on your internal network that will provide the virtual service, for example 192.168.2.50. You can select a computer from the list of DHCP clients in the "Computer Name" drop-down menu, or you can manually enter the IP address of the server computer. Protocol Select the protocol used by the service. The common choices -- UDP, TCP, and both UDP and TCP -- can be selected from the drop-down menu. To specify any other protocol, select "Other" from the list, then enter the corresponding protocol number ( as assigned by the IANA) in the Protocol box. Private Port The port that will be used on your internal network. Public Port The port that will be accessed from the Internet.

Inbound Filter Select a filter that controls access as needed for this virtual server. If you do not see the filter you need in the list of filters, go to the Advanced Inbound Filter screen and create 25 a new filter. Schedule Select a schedule for when the service will be enabled. If you do not see the schedule you need in the list of schedules, go to the Tools Schedules screen and create a new schedule. Add/Edit Virtual Server In this section you can add an entry to the Virtual Servers List below or edit an existing entry. Enable Entries in the list can be either active (enabled) or inactive (disabled). Save Saves the new or edited virtual server entry in the following list. When finished updating the virtual server entries, you must still click the Save Settings button at the top of the page to make the changes effective and permanent. Virtual Servers List The section shows the currently defined virtual servers. A Virtual Server can be changed by clicking the Edit icon, or deleted by clicking the Delete icon.

When you click the Edit icon, the item is highlighted, and the "Edit Virtual Server" section is activated for editing. You might have trouble accessing a virtual server using its public identity (WAN-side IP-address of the gateway or its dynamic DNS name) from a machine on the LAN. Your requests may not be looped back or you may be redirected to the "Forbidden" page. This will happen if you have an Access Control Rule configured for this LAN machine. The requests from the LAN machine will not be looped back if Internet access is blocked at the time of access.



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