Overview:
Cisco Wireless Network Management Suite 1.0

Introduction

Cisco Wireless Network Management Suite 1.0 (CWNMS 1.0) is a client/server based network management application suite for Broadband Fixed Wireless (BBFW) deployments, and consists of Cisco uBR7200 series universal broadband routers and variant head ends, and Cisco 26*xx* and Cisco 36*xx* series customer premise routers. With CWNMS 1.0 you can:

- Autodiscover network elements
- Monitor alarms
- Configure network elements
- Monitor RF channel performance
- Perform loop back tests
- Track network inventory

CWNMS 1.0 is packaged with:

- Cisco Wireless Manager
- CiscoView Wireless
- Cisco Broadband Troubleshooter

Note Use this document with *Cisco Wireless Manager Users' Guide, Cisco Broadband Troubleshooter Users' Guide,* and *CiscoView Wireless Quick Reference Guide*.

Components of CWNMS

- **Cisco Wireless Manager** (CWM):
    - Is an SNMP-based network management application that provides features for configuring, monitoring, and troubleshooting broadband fixedwireless network components.
    - Is based on a distributed clent/server architecture that allows you to partition the network into a collection of regional networks that can be managed separately.
    - Allows you to configure devices and networks by automatically discovering uBRs and the sectors, downstream and upstream channel settings, and the associated Customer Premise Equipments (CPEs) in each sector.
    - Allows you to monitor and graph network performance statistics in real time, and provides extensive alarm management capabilities.
- **CiscoView Wireless** is an SNMP-based device management application that provides dynamic status, statistics, and configuration information for the following network elements:
    - Cisco uBR 26*xx* series routers
    - Cisco uBR 36*xx* series routers
    - Cisco uBR 7200 series universal broadband routers
    - Other Cisco Internetworking products

    CiscoView Wireless provides:
    - Comprehensive configuration of routers
    - Realtime status
    - Statistics for Physical, Link, MAC, and Network layers
    - Realtime graphing
    - Advanced radio signal analysis tools
    - Redundancy support tools
- **Cisco Broadband Troubleshooter(CBT)** is a graphical tool that analyzes and debugs flapping CPEs. It provides facilities to classify the CPE flapping behavior into:
    - Provisioning errors
    - Link errors

Figure 1   Typical Application of the Cisco Wireless Network Management Suite 1.0
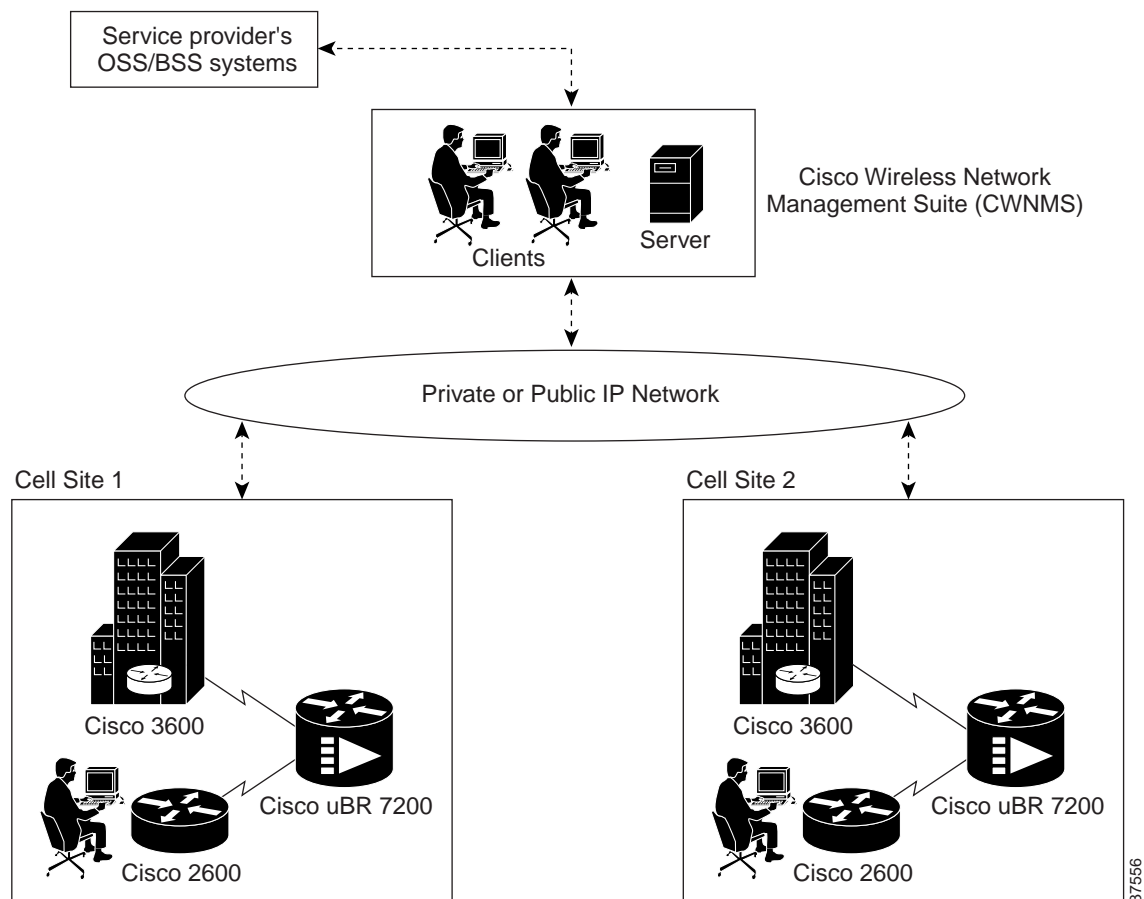
Product Features

- Autodiscovery and Topology Management

  With the Autodiscovery feature of the CWNMS 1.0, you can locate devices installed on the network, automatically deploy them, and discover each subscriber unit under each Cisco uBR7200 series universal broadband router.

- Fault Management

  Cisco Wireless Manager integrates fault management with Cisco Element Management Framework3.*x* (Cisco EMF 3.*x*), so that you can use the Events Browser and Alarm Management features.

  Refer to the Cisco EMF/EM documentation for details.

- Configuration Management

  You can perform device-specific configurations with CiscoView Wireless. You can start CiscoView Wireless for head-ends and subscriber units.

  Refer to the *CiscoView Wireless Quick Reference Guide*for details.

- Security Management

  CWNMS 1.0 provides security management on the Cisco uBR7200 series universal broadband routers. You can use the CEMF launchpad to create and set the User Name and Password Authentication feature.

  Refer to the *CEMF User Guide* for details.

  You can also use the CiscoWorks 2000 server security features to create users who can access devices with CiscoView Wireless.

- Performance Management

  You can obtain graphical and tabular performance reports for the point-to-multipoint wireless system and for all the routers deployed under a site, which include uBR, SU, upstream, and downstream SID report.

  You can obtain detailed realtime performance data and graphs for head-ends and subscriber units through CiscoView Wireless.

- Inventory Management Reports

  You can obtain uBR inventory reports from the CWNMS 1.0 that include IOS versions of uBR, environmental statistics, Flash files, and Flash devices.

- Software Download

  With the software download feature, you can upgrade software images of wireless subscriber units in batch mode, download images on demand or on a scheduled basis, and obtain summary reports.

- Troubleshooting

  With the troubleshooting tool, you can ping SU MAC/IP to test connectivity between a uBR and an SU, and use the Cisco Broadband Troubleshooter to detect subscriber units with provisioning and link-related problems by using uBR Flaplist Analysis.

- Redundancy Support

  CiscoView Wireless provides the facility to monitor and operate redundant head-ends.

  Refer to the *CiscoView Wireless Quick Reference Guide* for details.

Getting Started

Note If you are using the minimum system requirements as listed in *Cisco Wireless Manager 1.0 Users' Guide* and *CiscoView Wireless Quick Reference Guide*, Cisco recommends that you install Cisco Wireless Manager and CiscoView Wireless on two separate machines.

Install the Cisco Wireless Network Management Suite 1.0 in the following order:

1. CiscoView Wireless

2. Cisco Broadband Troubleshooter

3. Cisco Wireless Manager

For complete installation instructions, refer to the individual documentation for each component that ships as part of the CWNMS 1.0 package.

Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- http://www.cisco.com
- http://www-china.cisco.com
- http://www-europe.cisco.com

Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation from the Networking Products MarketPlace:

    http://www.cisco.com/cgi-bin/order/order_root.pl

- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:

    http://www.cisco.com/go/subscription

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

Documentation Feedback

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You can e-mail your comments to bug-doc@cisco.com.

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170 West Tasman Drive
San Jose, CA 95134-9883

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Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

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To access Cisco.com, go to the following website:

http://www.cisco.com

Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

http://www.cisco.com/tac

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

http://www.cisco.com/register/

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

http://www.cisco.com/tac/caseopen

Contacting TAC by Telephone

If you have a priority level 1(P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.

- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

This document is to be used in conjunction with the *Cisco Wireless Manager Users' Guide, Cisco Broadband Troubleshooter Users' Guide*, and *CiscoView Wireless Quick Reference Guide* publications.

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