

DATASHEET

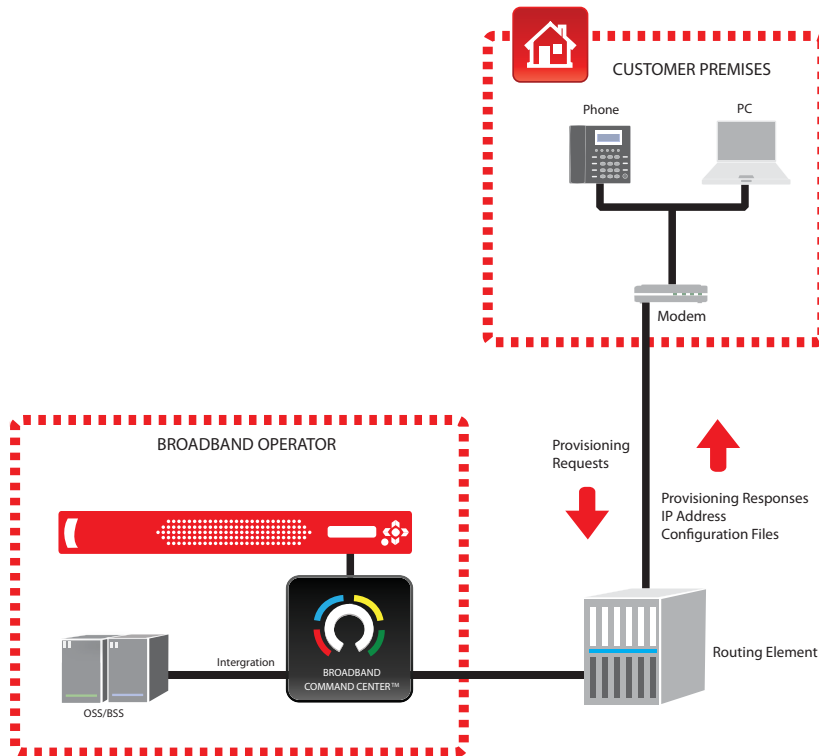
Broadband Command Center™ Appliance

“Out of the box” automated device provisioning for low-cost delivery of multimedia services

The Broadband Command Center Appliance is a turn-key device provisioning system for small to medium-sized broadband operators who need to reduce the time, costs, and complexity in deploying high-speed data, VoIP, gaming, and video services.

It allows for fast turnaround of new services by automatically bringing subscriber devices online based on operator-defined rules. It confirms subscriber information, billing, and service options before network access is granted.

The Appliance ships pre-installed with Broadband Command Center software, which may include the following modules: DHCP, DNS, Configuration File Manager (CFM), Multimedia Provisioning System (MPS), and KDC.



Automation for Fast Delivery of Low-Cost, Individualized Services

Operators can offer an unlimited number of individualized services because the Broadband Command Center Appliance automatically configures devices ‘on the fly,’ based on services that each subscriber has uniquely chosen. This automation also means that operators can add new customers or services faster, and reduce costs associated with manual administration.

Easy Setup with Minimal Training

There is virtually no setup or prep work. It’s easy for staff without specialized IT expertise because the software is pre-installed on one server or a dual-server, 5-nines-reliability package. GUI-based wizards, templates, color-coded reports, audit records, and real-time diagnostics also simplify workflows.

HIGHLIGHTS

- Automatic configuration of subscriber devices based on operator-defined rules
- Confirmation of subscriber information, billing, and service selections before network access is granted
- Quick setup with software preinstalled on Linux server and easy-to-use GUIs
- Support for several software modules: DHCP, DNS, ToD, Configuration File Manager (CFM), Multimedia Provisioning System (MPS), and CableHome KDC from IPfonix
- Wide device range: cable or DSL modems, VoIP phones, and 2- to 20-line multimedia terminal adapters
- 5-nines reliability in the optional highavailability server pair
- Versatility for use in cable, DSL, PON, and wireless networks
- Dynamic on-the-fly device configuration for minimal administration and unlimited variety of service bundles
- Scalability to expand as your subscriber base grows

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The Latest Protocol and Device Support

The Broadband Command Center Appliance supports all the latest communications protocols and standards (SIP, Secure PacketCable™, DOCSIS® across cable, DSL, FTTH, or satellite networks. Devices include cable or DSL modems, VoIP phones, and MTAs.

An Essential Component of Service Deployment

The Broadband Command Center Appliance interacts with customer service and billing systems to authenticate subscribers before processing device requests for startup, re-start, or changes in service. After receiving a request, the Appliance checks subscriber data, then securely transfers IP address, DNS server, and configuration information to the device so it can function on the network.

5 Nines Reliability with Dual-Server Option

- Automatic failure detection: service failure alerts via email, console, SNMP traps, Syslog messages
- DHCP address space always available; if DNS cannot be contacted, updates are queued
- TFTP: load balancing to dramatically increase performance, cluster up to 255 automatically synchronized TFTP services, automatic detection and removal of failed TFTP services
- Synchronization of TFTP and provisioning databases

Advanced Auto-Provisioning

- Auto-discovery of vendor and configuration for SIP, PacketCable, and DOCSIS devices including: cable and DSL modems, MTAs, eMTAs, 2- to 20-line MTAs, and set top boxes
- Self-provisioning: forces subscribers to register before downloading configuration files for their selected services
- Dynamic 'on the fly' generation of vendor-specific device configuration files based on individual subscriber choices, which minimizes effort in deploying highly personalized services
- Intelligent assignment of IP addresses using classes of service and automated rules based on: client type, device name, location, time, network and ISP-specific parameters, and Quality of Service
- Dynamic creation of hostnames, with domain names appended, so that fully qualified domain names are updated to the DNS service
- IP address limits for DSL services to ensure equitable delivery: maximum numbers of IP addresses per remote ID for devices or groups of devices
- Increased download performance with file caching

Friendly Windows-based GUI

- Wizards and templates for reduced setup time
- Real-time displays including color-coded status of IP addresses
- Easy device-specific setup of model, MAC address, subscribed services, privacy encryption key, as well as phone-line data such as name, password, phone number, and caller ID
- Comprehensive search capabilities for lookup by name, description, account ID, and device MAC address
- Command line interface for running scripts and exchanging XML data

Status Monitoring, Auditing, and Diagnostics

- Extensive diagnostics, logging, and real-time reporting on IP address usage, client information, and network information
- Automatic scheduled backups of database and audit records, with granular control over which audit events are archived.

Administrator & Login Security

- Multi-level security: access control lists for super-users, service managers, rules/template managers
- Triple DES password encryption, MD5 authentication, RC4 encryption
- Customizable limits and security limits with SNMP traps and online/email notification settings
- TFTP upload/download security to control client access based on IP address(es)

Product Specifications

- CPU: Intel Pentium D 945 3.4 GHz LGA775 dual-core processor
- SDRAM: 1 GB
- Hard Drives: Two 80 GB Western Digital SATA II
- Operating System: Linux
- Platform: 1U appliance chassis with 260W power supply
- Display: LCD
- Warranty: 1-year parts and labor, return to factory