



Billing and Bandwidth Management Solution



ISP



Overview

24online is the complete billing and bandwidth management solution that enables Internet Service Providers to provide hours/days and data usage based internet access and to manage subscribers and franchisees.

24online provides a comprehensive solution, supporting services over a range of networks like WiMAX, Wi-Fi services in addition to existing Cable, DSL/ADSL, FTTH, and MAN networks. 24online's RADIUS, Billing, QoS and NAS (Network Access Server) allow it to function as a single comprehensive easy to use solution that is useful for remote deployments of standalone WiMAX providers or as an integrated solution working with third party billing systems.

24online a highly scalable solution, manages subscriber numbers from a few 100s to 1000s and can be deployed rapidly. It enables providers to launch new revenue-generating services rapidly, enhancing revenues and profitability.



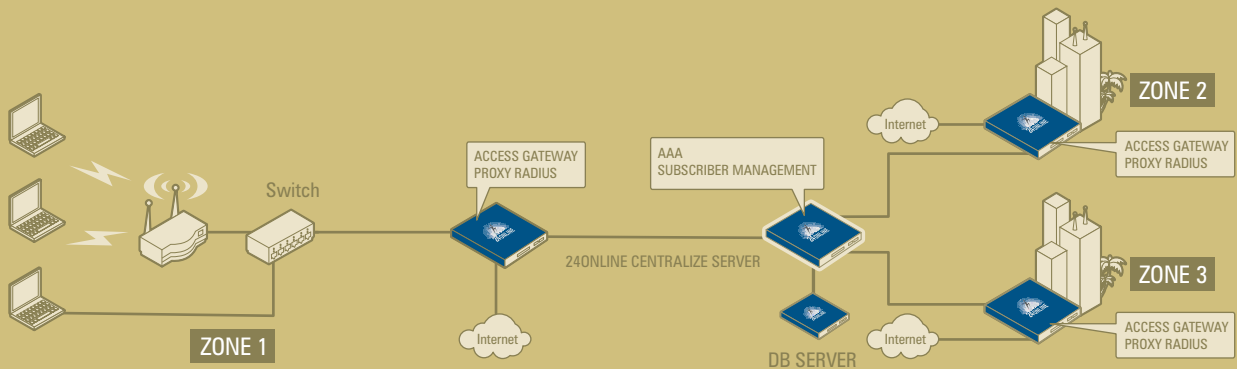
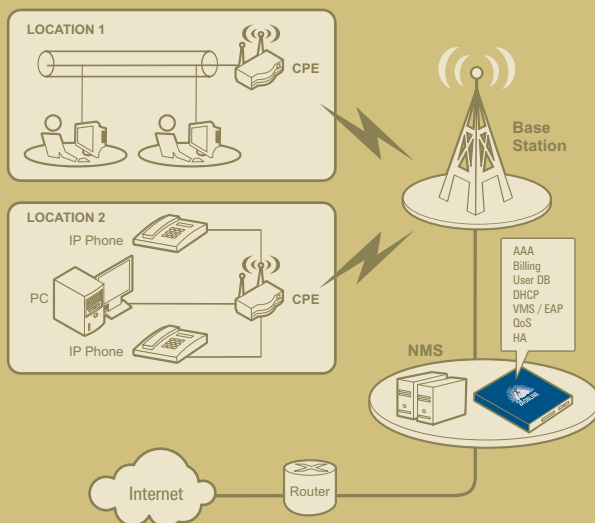
ISP

Benefits

24online is a comprehensive solution facilitating ISPs to offer customized business plans. Enables to generate pre & post paid PINs and flexible packages based on hours/days, data usage and discounts. 24online facilitates ISPs to provide internet access on secured networks increasing users' satisfaction.

24online allows ISPs to reduce revenue leakages by managing and monitoring franchisees based on their administrative access level. Ease of revenue sharing allows ISPs to increase partner base. ISPs can promote their business as 24online is an industry leading solution supporting WiMAX and Wi-Fi technologies.

ISPs can generate extra revenue by providing branding opportunities to franchisees and third parties as well.



24online Deployments

24online supports wired as well wireless networking. For service providers looking towards enhancing their existing broadband offerings, 24online allows them by supporting WiMAX as well as Wi-Fi services. Standalone providers benefit from rapid WiMAX service rollouts, differentiated service delivery and charging the access level, leading to high revenues and profit margins.

WiMAX/Wi-Fi

24online allows Wi-Fi access anywhere on the premises for hotels, hotspots, service apartments, resorts, airports and more with an access controller deployed behind the CPE, communicating with the centralized server at the Network Operations Center (NOC). The centralized 24online acts as the Access Gateway in addition to performing AAA functions through the inbuilt RADIUS and a common subscriber database.

Small to Medium ISPs

24online centralized server with distributed 24online access gateway is the right choice for medium service providers, allowing them to offer broadband and Wi-Fi offerings across vast cities or even countries. It can even be integrated with third party controllers and gateways. 24online can be offered as a single solution having access controller along with Billing and Subscriber Management at the same time.

24online Enterprise version best for large ISPs

24online supports Oracle as a database. 24online Application server and database server has been distributed on the different servers to scale up subscriber and concurrent users support. With this deployment 24online targets for more than 10k concurrent users and more than 100k subscribers. Having support of Oracle, 24online can provide all advantages of robustness and RDBMS database like Oracle.

Features

Billing

24online offers flat, flexible billing packages with peak and off-peak billing supported by pulse-based rating. Providers can offer promotions and discounts as well as launch date; time and usage based pre-paid and post-paid packages. It allows invoices to include service components and to configure it for taxes as well. 24online facilitates the announcement of new promotional and discount offers in addition to carrying third party advertisements on invoices.

Bandwidth and QoS Management

Service providers can implement bandwidth restriction based and subscribers and data usage in addition to quotas on individual or shared basis as well on services like voice, video. 24online supports committed bandwidth allocation (CIR) and burstable bandwidth allocation (CBR) offering high quality service to high-value enterprise customers. Variable bandwidth allocation based on hours/days and data usage supports customized services.

Authentication, Authorization & Accounting (AAA)

24online supports PPPoE*, RADIUS, and SOAP protocols and is available with an inbuilt RADIUS server. It is capable of captive portal for web-based authentication. It provides authorization based on IP and MAC addresses and comprehensive accounting based on time, duration, and usage. 24online redirects unauthorized users to a web-based authentication page, delivering high ease of use. 24online enables providers to track customer accounts for payments. Online payment gateway* integration is possible with 24online.

PIN Management *

24online facilitates multiple PIN generation, which can be restricted by package or zone. The prepaid PINS enable instant web-based registration and renewal for regular and walk-in customers. 24online enables online payment gateway* integration. The web-based interface also provides customized login/logout page as per user requirements. 24online maintains multiple templates for customization by the provider with branded voucher and coupon printing.

Franchisee Management *

24online ensures smooth creation and management of multiple franchisees based on zones. It enables them to create an administrator or manager per zone, allowing franchisees to manage their zone-specific subscribers. MIS reports based on franchisees' business processes offers high level of transparency in operations and as a business-tracking tool.

Data Transfer Billing *

Data Transfer Policy allows providers to charge and restrict user for various data transfer limit depending upon package selected i.e. Pre Paid or Post Paid.

Multiple Gateway Load Balancing & Gateway Fail over *

24online supports multiple ISP links and offers weight based round robin traffic balancing over them. This ensures high-speed connectivity even during peak hours delivering higher service levels to premium customers by diverting them over high speed Internet links. 24online checks gateway status continuously, ensuring immediate failure detection and traffic redirection to working gateways automatically and intelligently.

Access Gateway

24online's offers routing and Static NAT* (Network Address Translation) module that maps dynamic IP addresses to static public IP. It prevents any external threats to subscriber's computer, as there are direct incoming connections from the Internet are prohibited.

Reporting

24online provides exhaustive reports in graphical and tabular format, to the subscriber as well as the administrator. It also generates audit reports* of activity performed by the hotel administrator.

Data & Network Security

With the help of 24online basic firewall, you can restrict access to certain IP addresses or domain names, or block certain traffic by blocking several kinds of "Denial of Service attacks".

Customer's own Portal

24online's web self-care facilitates password change, online registration and renewal through PINs, view of bandwidth usage graphs, usage log based on time and data transfer, renewal history and more.

Role based Multiple Level Administration

24online provides differential levels of controls through multiple administrator and user level controls. It enables role-based administration and creation of an administration for each zone.

High Availability *

24online supports High Availability feature allowing providers to configure two appliances (cluster) to function as single 24online appliance providing high availability. Thus, in case of failure the auxiliary appliance takes over the primary appliance and processes the entire traffic. This feature helps in avoiding the huge data-loss and providing continuous connection as well as security service reducing downtime in services and to add customer satisfaction.

24online Payment Tracker *

24online has now embedded an additional billing feature - Payment Tracker. Service providers can easily generate and manage user payment details with the help of this feature.



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