



INFO TECHNOLOGIES PRIVATE LIMITED

# INTERNET ACCESS MANAGEMENT SOLUTION for ISPs, TELCOS, & BROADBAND

20+ years  
of experience

Presence in  
80+ countries

250+ Channel  
Partners

1000+ Clients

5500+ Installation  
over the globe

5.5 million  
Subscribers Globally

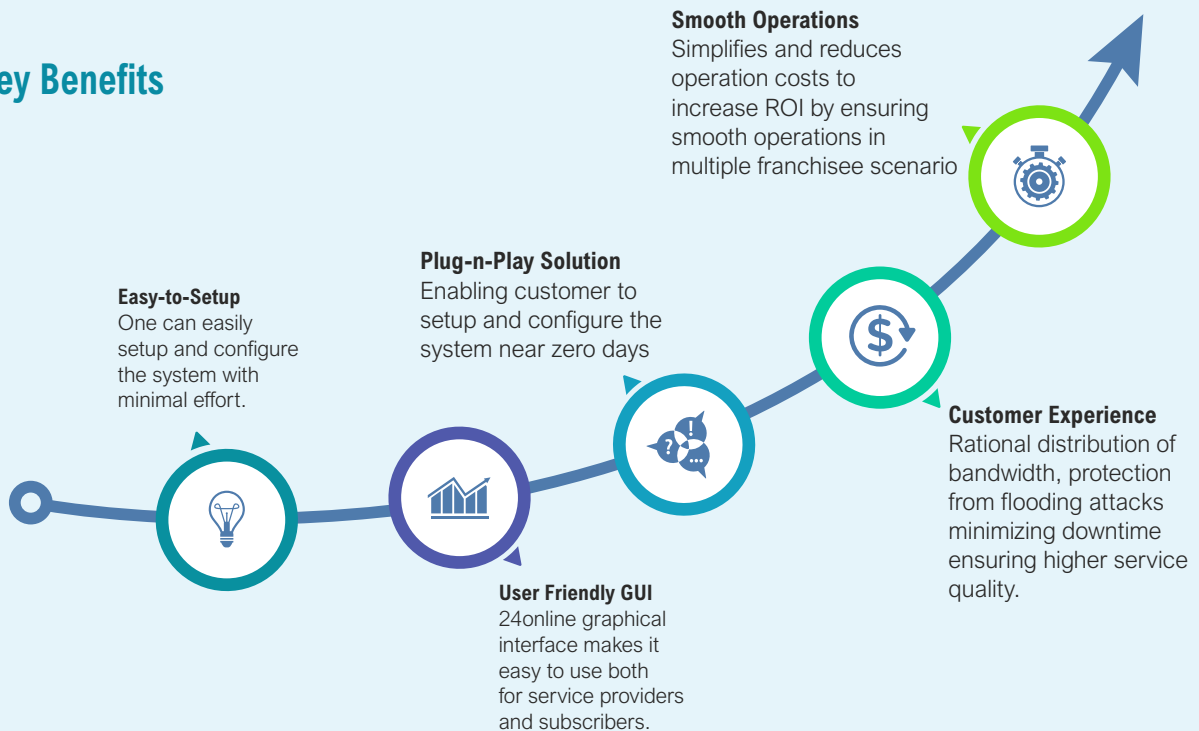
[www.24onlinebilling.com](http://www.24onlinebilling.com)

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## Overview

24online, has been developed engineered to cater the advanced needs of internet service providers all over globe. 24online addresses the challenging issues of customer acquisition, secured service provisioning, internet billing and revenue generation. 24online has vast experience of product development and project management for different network platforms like Wired/Wi-Fi/VSAT etc. Being in this market for a while, 24online very well understands necessities and challenges of services providers managing the unending demands of users in highly cost effective ways.

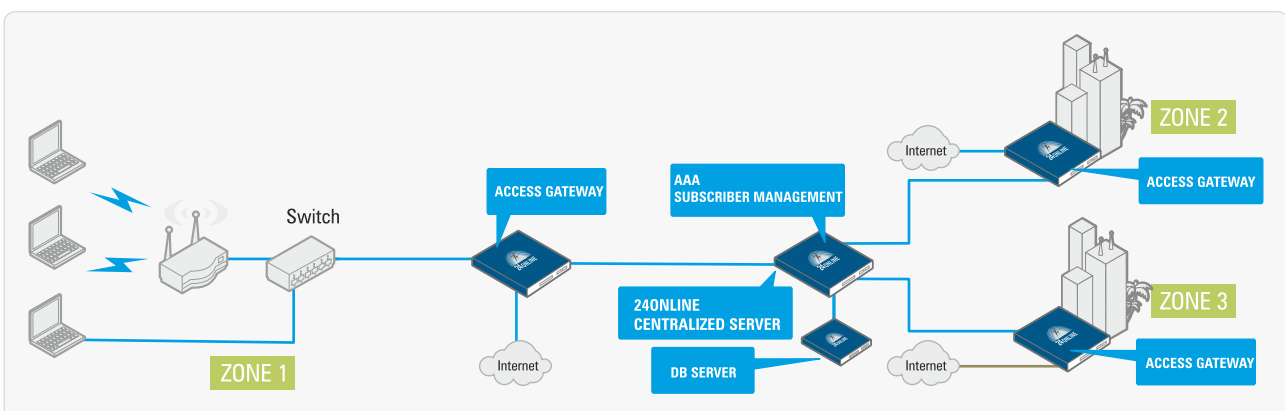
## Key Benefits



## Solution Deployment

### Single and Multiple Wired/Wi-Fi Network

24online supports wired as well as wireless networks and can be deployed without disturbing the existing network. 24online is flexible enough to act as Access gateway, AAA and Billing in the same network. It can be configured as per the requirement of the network. 24online is capable enough to communicate with third-party servers for authentication or user details. 24online can be deployed in single or distributed mode for single or multiple locations based wired – Wi-Fi networks.



## Features

### Access Management

#### Inbuilt RADIUS Server

- 802.16d & 802.16e Compatible
- PAP/CHAP/EAP-TLS, EAP-TTLS support
- Offers inbuilt Database
- Supports Oracle Database

#### Authentication

- Login through mobile app/PPPoE/web-based
- Based on username and password
- Interoperability
- MAC Based Auto Login

#### Authorization

- Based on MAC and IP address
- Re-Authorization Functionality

#### Accounting

- On hours, days, data transfer

### Bandwidth Management

- Tiered Bandwidth Management
- Committed and Burstable Bandwidth
- Individual and Shared Bandwidth Quota
- Bandwidth Scheduling & Fair Usage Policy
- Priority based bandwidth & contention ratio
- Bandwidth capping using firewall rule

### Subscriber Management

- User Life Cycle Management
- Account ID based User Credentials
- Create | Activate | Suspend | Renew | Archive Users
- User Management Based Reports
- User My Account
- User Account Wallet

### Package Management

- Prepaid & Postpaid packages
- Create Hourly and Day based plans
- Registration, Renewal & Topup packages
- Advance Renewal System (ARS)
- Auto Renewal System

### Internet Billing

- Data Billing
- Peak & Off-peak Billing
- Pulse Based Rating
- Pre-paid and Post-paid Billing
- Customizable Multi-Service Invoice Template
- Tax, Ancillary and Discount Facility
- Currency Converter Facility
- Allow Billing Grace Periods
- Charge overwriting on Post Paid Billing
- Discount facility on both Package level & User Level

### Franchisee Management\*

- Create Multiple Franchisees In Network
- Create Single or Multiple Franchisee Operators
- Franchisee Based: Package | Vouchers | Invoice | MIS Reports
- Franchisee Based Payment Tracking

### Coupon Management\*

- Branding & Customizable Coupon Templates
- Create Package & Zone wise Coupons

### Captive Portal Capabilities

- Create Customizable Login Pages – HTTP enabled
- Device Based Login Pages – Mobile/Laptop
- BYOD Support
- Social Media Based Authentication
- Create Page for SMS OTP based login
- User Self Registration
- Promotions and Branding options

### Multiple Gateway Load Balancing\*

- Supports Multiple ISP Links
- Weight Based Round Robin Traffic Balancing
- High Connectivity Even During Peak Hours
- Immediate Failure Detection
- Intelligently Redirect Traffic to Active Gateways

### System Management

- IP Pool Management
- DNS, DHCP & PPPoE client & server
- SmartNat\*
- SNAT Management\*
- Console & Secured Access (SSH)
- Diagnostic Tools
- Demographic Field Option
- Basic Firewall System
- Walled Garden
- Syslog Configurations
- Swift User Migration Facility
- Data backup and restore
- Network Management Options
- Factory Reset
- Network packet capture option for admin
- Deployment Modes – Access Gateway | AAA | Standalone

### Administration

- Role Based Multiple Level Administration – Console & Admin GUI (ACL)
- Change Password Options
- Multi-functionality Dashboard Facility
- Ease of admin interface
- Quick configuration options

### Reporting

- Admin GUI Usage Log - Audit Reports\*
- NetKapture\* | Weblogger\* | Syslog Integration
- Reports in CSV/Printable/Graphical/PDF
- Diagnostic and System Health Check Tools
- MIS & BI Reports
- Realtime Pin Reports
- HTTP/HTTPS Usage Log

### Third Party Integrations\*

- CRM Integration
- Ticketing System Integration
- API Based Integration

### Payment Gateway\*

- Integrated with major secured payment gateways
- Facilitates online payment receivables
- Flexible to integrate with any payment gateway
- Integrated with 24online payment tracking

### Video Ad on Captive Portal

- Video-Ad scheduling for HTTP traffic while browsing
- Video-Ad at the time of login/logout
- All video type file supported

\*Add-On Modules

### Attractive & User Friendly Admin Interface

- Rich look and feel of admin GUI
- Multi-lingual GUI option
- Frequently used options
- Demographic Field Option
- Comprehensive Dashboard Format
- Easy Control & Configuration Options

### High Availability\*

- Offers High Availability Active-Passive Mode
- Detect Failure and Redirect Traffic to Secondary Server
- Avoids Data Loss and Downtime

### Alert Management

#### Email Based Alerts

- Event based customizable email templates
- Schedule alerts for renewal/package expiry
- Alert users on bandwidth switch over
- Dunning (Configuration Dynamic Templates & forward various level of alert Messages over Mail)

#### SMS Based Alerts\*

- Click-n-Configure SMS Gateway
- Integrated with 20+ SMS gateways
- Manage, Try and Create Facility
- Facilitates different message templates
- Send message at different events – Register/Renew/Login/Logout etc
- Offers complete log of SMS sent
- SMPP Support

#### Pop-up window for Live Users

- Alert users in-case of login/logout/package expiry etc
- Pop-up live message for network or technical problems

### Web Filtering

- Web Categories : Default (37+)
- Block Domains and Ports
- Protocols supported: HTTP, HTTPS
- Block Malware, Adult sites
- Custom Denied Message per Web Category

### CRM

- Profile Management
- Sales Management
- Customer Verification
- Collection Management
- Trouble Ticketing
- Lead Management
- Field Management
- CRM Dashboard



## 3rd Party Integration

24online RADIUS is well integrated with major 3rd party BRAS/BNG/DPI/Access Gateway/NAS as well as 3rd party WIFI Access Point/ Wireless Controller

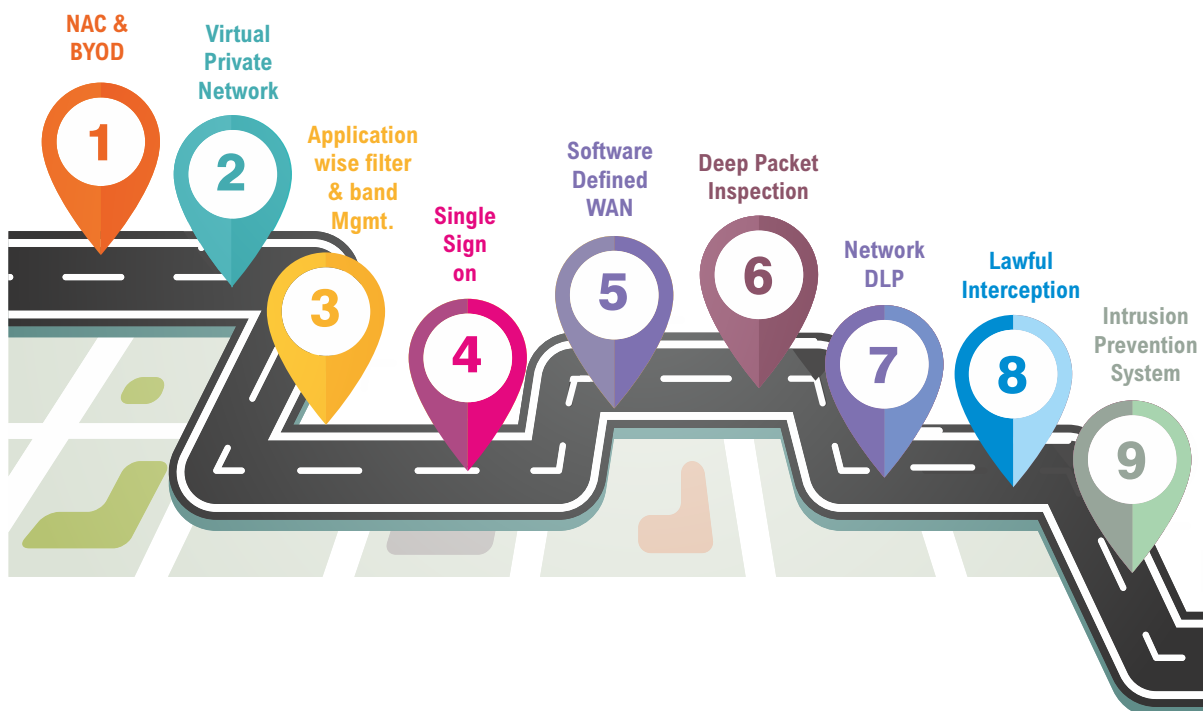
### BRAS/BNG/ DPI/ Access Gateway/NAS



### WI-FI Access Point/ Wireless Controller



## Future Road Map



## SMS Series



SMS 200iX



SMS 500iX



SMS 1000iX



SMS 1500iX



SMS 2500iX



SMS 5000iX



SMS 10000iX

Sr. No	Hardware Model	Data Throughput (Standalone-Mbps)	Data Throughput (NAS Mode-Mbps)	Concurrent Users (Standalone-No.)	Concurrent Users (NAS-No.)	Concurrent Users (RADIUS-No.)
1	200iX	150-200	200-250	200-300	300-350	500-550
2	500iX	200-300	250-350	500-550	600-650	1000-1100
3	1000iX	500-550	600-650	1200-1500	2000	3000
4	1500iX	1200-1500	1800-2000	2000-2500	2800-3500	9000
5	2500iX	2000-2400	2800-3000	4000-4500	5000-5500	15000
6	5000iX	4000-5000	5000-5500	7000-8000	9000-10000	40000
7	10000iX	6000	6500	15000	15000	50000

## Market Segments





## ◆ Clientele



**INFO TECHNOLOGIES PRIVATE LIMITED**

### Corporate Office

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### About 24online

24online is a leading internet access management and network management solution that offers wide range of internet access control and management solutions that enables ISPs, Hotels, Hotspots, Airports, Educational Institutes, Smart Cities, etc. to simplify their internet network. 24online addresses the challenges of customer acquisition, secured service provisioning, internet billing, monetization via internet services and revenue management. The solution has vast experience in catering to varied network like Wired, Wi-Fi, Cloud, VSAT and LTE. With more than a decade of experience, we offer the world class solutions in the most cost-effective way.

APAC Regional Distributor



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