

## Access Points Featuring New Online.pl / APPro Software

Our software incorporates a specialized Linux distribution, tailored to most widespread Realtek 8181 chipset-based access points, available from the majority of IT hardware distributors. The software incorporates tools necessary for AP's proper operating and configuring, it allows to log onto the AP via telnet, to access shell and utilize administration and diagnostic tools familiar to Linux users. As it integrates such tools as tcpdump, traceroute or

arping, it allows for optimizing wireless network functioning along with faster diagnosing and eliminating a plethora of problems (virus attacks, P2P bandwidth overhead etc.). Furthermore, typical and extended access point's functionality such as bandwidth management, watchdog, port blocking etc. are available via WWW interface.

**Using our software you will cut on redundant hardware purchase costs (managing server, router, firewall, watchdog), streamline your network structure and enhance its quality, reliability and security. Network users will greatly appreciate these!**



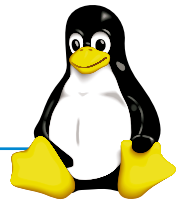
*Net price of OvisLink AP 1120  
access point bundled with Online.pl/APPpro  
software is 300 PLN*

For additional information please visit:

<http://wifi.online.pl/>

Demo version is available for testing at  
<http://62.111.168.26> and telnet 62.111.168.26,  
login: "online", password: "online"





## Online.pl / APPro Functionality Outline

### 13–20 dbm Power Adjustment

You can optimally adjust output power to meet your needs. For long-distance operating you can raise power by 2dbm over factory limits. Should you want your hardware or antenna set to undergo certification proceedings, you can lower power and block its regulation.

### Peer-to-Peer Traffic Blocking (intra-BSS Traffic functionality)

Peer-to-peer traffic within base station radio networks with Internet access places a significant overhead on available radio bandwidth, thus lowering the quality of access to remaining services. Lengthy pings and long packet dropping are the typical symptoms of bandwidth clogging. By simply blocking intra-BSS traffic you will immediately solve this problem.

### Network Neighborhood Filtering Options: RPC, NETBIOS Filtering

Windows systems periodically send packets on ports 135, 137, 138, used in communicating and exchanging files in LANs, which generates unwanted traffic. Block these ports to save bandwidth for Internet access. Moreover, switching on this option blocks Windows RPC calls, thus allowing you to minimize the threat of many virus and worm attacks.

### Telnet Access to Diagnostic Tools

*Ping, tcpdump, ifconfig, traceroute* — this function allows experienced administrators to feel like home while diagnosing such problems as intrusions, virus attacks, connection failures etc.

### iptables Packet Filter

React fast to serious trouble, such as network jams caused with superfluous packets generated by a virus-owned workstation. *-iplimit-above* option will thwart P2P lovers, while *-ttl-lt* prevents users from illegal sharing bandwidth.

### Watchdog to Restart the Device If Connectivity Is Lost

Although we have never recorded such an issue with RTL8181-based devices, though many APs are known to lose radio connectivity with no apparent reason, thus forcing device's restart on one of link sides. Our software allows you to pick an IP number to be tested and the AP will be restarted in case of missing answer. You will save either on hardware watchdog or time to get on the roof and restart AP manually.

### Bandwidth Management for 32 Users

Users sometimes behave as if they wanted to grab everything Internet offers and copy it to their hard disks. With the unmanaged bandwidth you will soon face the threat of other users not being able to use network reasonably. Hitherto the most often solution to this hitch was providing Linux-based server for bandwidth management. Our software picks up the gauntlet and performs this task, thus allowing you to save your budget. It allows to assign uplink and

downlink bandwidth to selected IP addresses easily and manage bandwidth close to the user, which translates to higher effectiveness. Of course you are free to put constraints on bandwidth consumed by a single user or a small user group in APC mode.

### Assigning Bandwidth to Individual Services: Mail, WWW, P2P etc.

P2P packet traffic is a bane of Internet providers — hundreds of MP3 or video files can totally devour bandwidth necessary for webpage viewing or mail. Our solution lets you specify easily the fraction of capacity available e.g. for P2P and WWW. As bandwidth management is dynamic, key services will be always provided with necessary capacity; during overload periods mission-critical services will supersede the ones that you specify as less important.

### Picking Queuing Algorithm (FIFO, PRIQ, HTB)

You would like to make FTP resources available to your wireless users, but they always grumble over long pings and “stuttering” services? Well, you can make their life easier. By picking the appropriate packet queuing algorithm you can minimize lags for high-prioritized traffic (ICMP, SSH, broadcasting) at the expense of mass transmissions (FTP, P2P).

### Brand New Features Available in APPro Software

- multipoint bridge mode,
- bandwidth management for 32 users — per IP,
- assigning bandwidth to individual services: mail, WWW, P2P and the rest,
- blocking traffic on selected ports,
- packet queuing algorithm selection: FIFO, PRIQ, HTP,
- output power adjustment,
- encrypted WDS,
- intra-BSS traffic blocking options,
- network neighborhood filtering options: RPC, BIOS filtering,
- broadcast filtering options,
- tx operation rate setting options,
- auto rate fallback options,
- router and bridge functionality,
- watchdog for restarting the device in case of connection dropouts,
- WWW server restart,
- automatic date setting,
- safe firmware upgrade,
- default password removed,
- telnet access.

### The Majority of Linux Commands Is Available

And much more:

- *tcpdump* — an excellent tool for virus attack detection,
- *ping, traceroute, arp, arping* — network diagnostic tools,
- *nslookup, ifconfig, netstat, df, free, iptables, qos, flash, vi* — configuration tools.

Demo version is available for testing at  
<http://62.111.168.26> and telnet 62.111.168.26,  
 login: “online”, password: “online”