

# DNSBOX300

## DNS MANAGEMENT MADE SIMPLE

**DNSBOX300 is a master appliance for DNS Management. It is a central management server for controlling unlimited remote DNS servers and enabling integrated administration by a team of any size, distributed anywhere.**

Administering DNS using BIND or Windows servers can create lots of unnecessary headaches. In large or growing networks it can involve many man-years of tedious work. A lot of this could be saved with better tools:

### Administering DNS is complex, repetitive and time-consuming:

- Editing DNS records involves inefficient workflows – with lots of repetition and copying – and errors are easy to make. The data is not human-friendly.
- Now DNSSEC and IPv6 are creating even more work and complexity.
- Controlling, maintaining and administering multiple linked DNS servers individually creates more inefficiency.

**Enforcing administrative procedures is challenging.** It's difficult to share the work among multiple administrators without tools for controlling delegated editing rights or viewing history

### Protecting your core DNS services from security threats and service failures:

- DNS is a top security target. BIND and Windows DNS are vulnerable to intrusion, DoS attacks and cache poisoning, with new vulnerabilities often emerging
- Configuration is error-prone: a single mistyped character could bring down your entire network, with disastrous business consequences
- A DNS server failure could be caused by application or operating system software, hardware or operator error. Robust DNS architectures need redundancy, which itself is complicated to get right

**DNSBOX300** overcomes these issues by radically simplifying DNS administration, making it easy to delegate workload among staff and protecting your DNS service from attack or failure.

**DNSBOX300** is usually deployed with **DNSBOX200** servers to deliver a complete DNS architecture. It can also be integrated with other DNS and DHCP servers. Customers choose the **DNSBOX300** model when:

- Managing and serving external DNS domains – this could be in an enterprise or a service provider environment. Typical use ranges from quite small scale DNS management situations, with relatively few fairly static zones, up to quite large, changeable DNS datasets. Whatever the size, a robust, secure master-slave solution to guarantee the DNS service is business critical.
- Running DNS and DHCP services across a medium-size organisation's network.
- They have a larger network with some separation of DNS systems. Typically they want to use Windows DNS/DHCP to look after their PC parts of the network, are looking for a solution for the \*nix side of the network (which is probably using BIND DNS), and want to keep the two sides quite separate with minimum integrations.

If you purchase **DNSBOX300** and later want to handle an expanded scope, where integrated IP address management (IPAM) would be helpful, you can upgrade your master appliance to a **DNSBOX400**.



## DNSBOX300 Benefits

### Eliminate DNS downtime

- Data syntax validation
- Data logic validation

### Streamline management with built-in automations

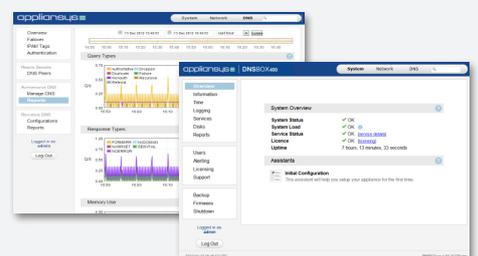
- Manage more data with existing staff
- Reallocate senior staff to high value operation
- Assign routine tasks to junior staff
- Central Recursive Management

### DNS admin made easy

- Automated updating of DNS zone serial numbers and reverse DNS records
- Validation of all entries to DNS configuration
- Full support for IPv6 and DNSSEC
- Automated zone signing and DNSSEC key rollover

### Save Money

- Typical payback 3-6 months
- Minimal installation: 1 to 3+ days
- DNS admin time savings: 50%+ overall:
  - Add zone: 10-20mins -> 30secs
  - Address record change: 10mins -> 1min
  - Eliminate errors: 1hr+ per fix
  - BIND & OS updates: save 40-80hrs/yr
- Safely delegate to more junior staff
- Spend freed time of more skilled staff on more value-added tasks



## Secure from the ground up

With DNS a popular target for attack by hackers **DNSBOX300** incorporates industry standard architecture and DNS security best practice from the outset. By only communicating with authoritative slaves it can be completely hidden from the world.

All connections to the User Interface are secured using SSL and connections between **DNSBOX300** and DNS and DHCP slaves are secured using combinations of SSH, IPSEC, TSIG and DNSSEC, preventing the unauthorised alteration of your data.

## Controlled Administration

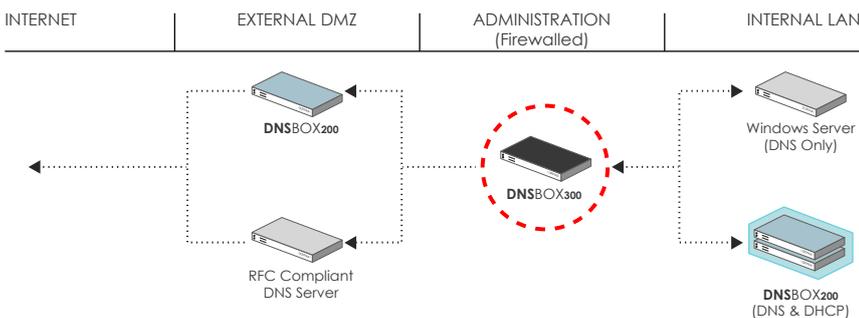
Accessible remotely via a secure web interface, **DNSBOX300** offers full support for 'distributed administration'. The 'User Groups' feature allows a central super-administrator to maintain tight granular control over the rights of delegated administrators.

In other words, it's great for organisations with multiple administrators, ensuring the management task can be shared in a very efficient, controlled and coordinated way.

## Scaling and availability for growing networks

There are no set limits to the amount of data **DNSBOX300** can manage. Furthermore, it supports an unlimited number of concurrent administrators and remote secondary servers. It can be used for centralised management of any RFC compliant DNS server with additional benefits when used with **DNSBOX200** - tight integration means less administration work and enhanced security and redundancy.

**DNSBOX300** can be deployed with a failover unit which is continuously replicated from the active master. In the unlikely event of failure this will ensure there is no impact on network availability.



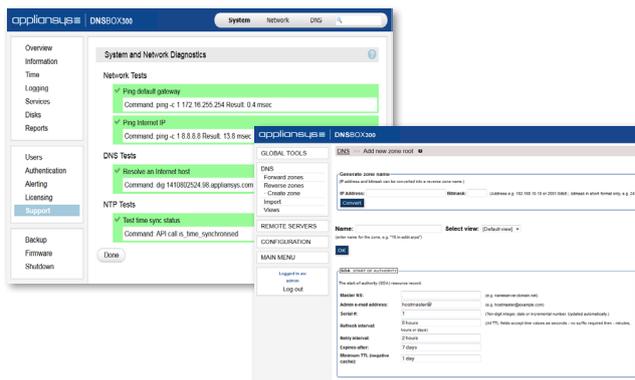
If your network grows or you re-architect your network services, you may later want to increase the scope handled by **DNSBOX** to include IP address management and implement a fully integrated DDI solution. In this case, **DNSBOX300** can be upgraded to a **DNSBOX400** to include IPAM, through a simple license upgrade.

## Rock solid appliance

**DNSBOX300** is a hardened Linux-based appliance optimised for performance, robustness, security and ease of management.

The custom Linux OS has been built from the ground up, supporting the core application with only the most critical network tools.

A key aspect is use of solid-state storage, with no hard drives in these appliances. Hard drives account for 90% of hardware failures, so **DNSBOX300** is 10x more reliable than alternatives. If power fails, there is no loss of data or settings and reboot is immediate.



## DNSBOX300 - Key Features

### Simplify DNS administration

- Built in automation and data validation
- Support for DNS Views
- Support for DNSSEC incl wizard for simplified zone signing
- ENUM support for mapping telephone numbers to IP addresses
- Support for IPv4 and IPv6 records
- Support for an unlimited number of remote secondary servers
- Agentless integration with Microsoft DNS & DHCP
- Perform bulk changes, including TTL zones
- Centrally monitor DNS/DHCP performance on all linked servers
- Easy to set up DHCP failover with configuration shared between units
- KEA-based DHCP - easily migrate from ISC DHCPd

### Auditing & control

- Built-in local and centralised user authentication incl. for RADIUS and LDAP
- Fully granular User Groups feature to maintain tight control over the rights of delegated users
- Support for unlimited concurrent administrators
- Transaction log with audit trail (who, what, when); unlimited undo and redo
- Pre-populated host and zone templates

### Appliance management

- Appliance Management
- Secure web interface
- Failover replicates all DNS data to a Hot-Standby unit
- Simple backup, restore and upgrade facility: firmware update with option to rollback to previous version
- Graphical reports on performance, usage and system health
- Email, SMS and SNMP alerts for remote monitoring
- Supports output to remote Syslog server

## Technical Specifications

	DNSBOX310	DNSBOX320	DNSBOX330
<b>Usage:</b>	Light Duty	Standard Duty	Heavy Duty
<b>Form Factor:</b>	Short 1U Rack Mountable	1U Rack Mountable	
<b>Max IPs licenced:</b>	Unlimited		
<b>Ethernet:</b>	4xGbE Network Interface		
<b>Flash Memory:</b>	1xOS/application, 1xuser-data		
<b>OS:</b>	Linux		
<b>Dimensions:</b>	19x1.75x10 (ins); 48.2x4.4x25.4 (cm)	19x1.75x17 (ins); 48x4.5x44 (cm)	