



## Tru'IP

A highly reliable, scalable and proven suite for carriers that provides Internet-related services for their clients. Be it with Mobile Data through Mobile core, carrier-grade DHCP/DNS or ANTLabs Media Controller, the Tru'IP product family enhances user experience.



## Standard Features

### Tru'IP DHCP/DNS

- Wholesale DHCP
  - Virtual DHCP server
  - Circuit ID groups
  - Fully configurable DHCP service per Circuit ID group
  - Real-time or historical DHCP client lease query status
  - RFC 2131, 3315, 6926, 6221, 5460 + many others
- Wholesale DNS
  - Virtual DNS server
  - Source IP and/or Destination IP groups
  - Fully configurable domains per IP groups
  - Independent web-based management per domain
  - RFC 1034, 1035, 1123, 4033

### Tru'IP System Components

- Application Delivery Controller (ADC)
  - DHCP Reverse Proxy
    - DHCP packet check
    - Rate limit per circuit ID
  - Load Balancer
    - Dispatch by DHCP circuit ID or relay groups to DHCP clusters
- DHCP Server (DHCP)
  - Virtual DHCP server
    - DHCP packet check
    - Dispatch by DHCP groups & DHCP relay GID DHCP service
    - Parallelized DHCP service and lease management
    - Static and Dynamic IP assignment
    - IP allocation by DHCP Relay GID, DHCP option 82 Circuit ID (VLAN-ID, Domain-ID) or custom DHCP attributes
    - Centralized CMS session database
- DNS Server (DNS)
  - Policy based DNS server
    - IPv4 and IPv6 DNS Views
    - Resource Records Balancing
  - Authoritative DNS Server
    - Dispatch by Server and Client IP grouping
    - Backend database for DNS records
    - Multiple DNSSEC key support
  - Recursive DNS Server
    - Internet root to authoritative DNS(DNSSEC) resolution
  - Forwarding DNS Caching Server

- Central Management System (CMS)
  - Cluster Node Management
    - Application Configuration
    - Diagnostics, Statistics, Patch Maintenance
  - Cluster Report Management
    - Log Consolidation
    - Real-time Graphical Reports

### Tru'IP Performance

- Tru'IP ADC
  - Performance
    - 100K LPS per second (Full DORA)
    - 1M Circuit ID/GID relay rules
  - HA
    - Supports geographical Active-Active HA
    - No synchronization required
    - ADC failover within 20 seconds
- Tru'IP DHCP
  - Performance
    - 100K leases per second
    - Supports 10M IP per cluster
  - HA
    - Supports geographical Active-Active HA, Active-Backup (master-slave) HA mode
    - Bidirectional lease synchronization
    - DHCP failover within 12 seconds
  - API
    - IP to Circuit ID query
    - Circuit ID provisioning
- Single DHCP Server/Single Subnet Performance
  - 4-way DHCP handshake
    - 100K LPS (5M IP)
  - Renew only
    - 200K LPS (5M IP)
- Tru'IP DNS
  - Performance
    - >300,000 queries per second
    - Supports 2.5M host records per cluster
  - HA
    - Supports geographical Active-Active HA
    - No synchronization required
    - Client-side or anycast failover



Specifications

Model	Tru'IP DHCP/DNS		
	4200	4300	4400
DHCP IPv4/IPv6-Prefix IP	Up to 4M (1500 subnets; 64K IP per subnet)	Up to 6M (2500 subnets; 64K IP per subnet)	Up to 10M (4000 subnets; 64K IP per subnet)
Active Leases	Up to 2M	Up to 3M	Up to 5M
LPS	Up to 5K	Up to 10K	Up to 100K
DNS Records	Up to 500K	Up to 2M	Up to 2.5M
QPS	>70K	>150K	>300K
	Appliance		
Processor Cores	8	16	32
Memory	16 GB	32 GB	96 GB
Effective Storage	600GB	1.2TB	600GB HDD 800GB SSD
Hardware RAID	YES	YES	YES
Network Interfaces	2x 1GE Service Port 2x 10GE SFP HA Link	2x 1GE Service Port 2x 10GE SFP HA Link	2x 10GE SFP Service Port 2x 10GE SFP HA Link
Power Supply	AC Redundant Power Supply		
Remote Console	Graphical KVM		
Rack Mount	1U appliance	1U appliance	3U appliance

Model	Tru'IP CMS
	4300
API TPS	Up to 100
Management Instances	Up to 10
Components	API, Web Server/UI, DB